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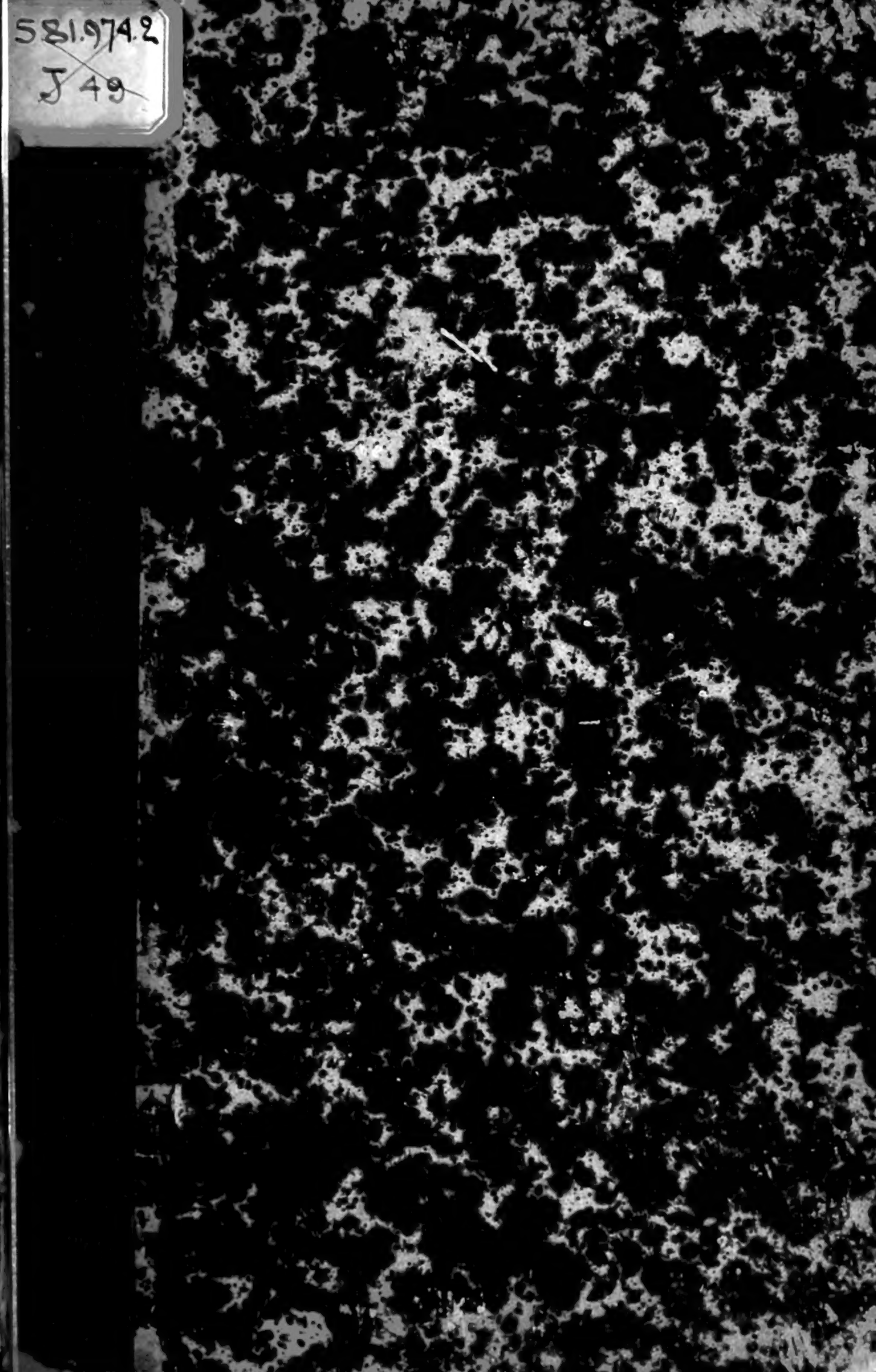

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# A PRELIMINARY CATALOGUE

OF THE

# FLOWERING PLANTS

AND

# HIGHER CRYPTOGAMS

GROWING WITHOUT CULTIVATION WITHIN THIRTY MILES OF HANOVER, N. H.

TO WHICH IS APPENDED

# A LIST OF THE VERTEBRATES

OF THE SAME REGION:

BY HENRY G. JESUP, A. M.,

PROFESSOR OF NATURAL HISTORY IN THE CHANDLER SCIENTIFIC DEPARTMENT OF DARTMOUTH COLLEGE, AND THE N. H. COLLEGE OF AGRICULTURE AND THE MECHANIC ARTS.

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HANOVER, N. H.:
N. A. McCLARY.
1882.

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## DIRECTIONS FOR COLLECTING AND PRESERVING PLANTS.

1. A *complete* specimen will represent the root, stem, leaves, flowers and fruit.

2. Collect small plants, like the Violet, *entire*.

3. When the leaves of the stem and the root differ, as in some Buttercups, get both.

4. If the staminate and the pistillate flowers are on different plants, as in Thalictrum (Rue), or on different parts of the same plant, as in the Butternut, look for both.

5. Plants of the Orders, Cruciferæ (Mustard Family), and Umbelliferæ (Parsley Family), with all Rushes and Sedges are classified by the *fruit*. Grasses may be gathered in *flower*.

6. Ferns should be in fruit, and when the sterile and fertile fronds differ, as in Osmunda, get both.

7. Thick roots and stems can be split in two and one-half only be preserved.

8. Arrange the plant to be dried in a folded sheet of thin, bibulous paper, and do not disturb it until dry. Let thick pads of drying paper alternate with these single sheets, and then place the whole under pressure. Change the drying pads every day or two, and dry as rapidly as practicable.

## SUMMARY OF SPECIES.

| | | |
|---|---|---|
| Polypetalous, | 286 | |
| Monopetalous, | 265 | |
| Apetalous, | 96 | |
| Angiosperms, | | —647 |
| Gymnosperms, | 13 | |
| Exogens, | | —660 |
| Endogens, | 296 | |
| Phænogams, | | —956 |
| Cryptogams, | 52 | |
| Total number of species, | | —1008 |

Introduced phænogams, 144

Additional species to be expected, 146

P. H. WHITCOMB,
DARTMOUTH STEAM PRESS,
HANOVER, N. H.

# PREFACE.

The following Catalogue is intended to include, so far as known, the Flora within about thirty miles radius of the town of Hanover, New Hampshire, a circuit extending to and embracing the mountain peaks, Moosilauke and Kearsarge in N. H., and Killington in Vt. The outlying towns intersected by the circumference of the circle, beginning with the southern limit and the Connecticut river, are, in N. H., Charlestown, Acworth, Lempster, Goshen, Newbury, Sutton, Andover, Hill, Bristol, Bridgewater, Plymouth, Campton, Ellsworth, Benton and Haverhill. Continuing the circuit on the Vt. side of the river, the towns are Newbury, Topsham, Orange, Williamstown, Brookfield, Braintree, Rochester, Pittsfield, Chittenden, Mendon, Shrewsbury, Mt. Holly, Ludlow, Chester and Springfield. The region thus indicated is divided nearly equally between the two adjoining states. As yet, a part only has been thoroughly explored; mainly, the Connecticut river, and the towns upon its banks. Other portions, of equal interest doubtless, await the enthusiasm and keen eyes of the botanist; notably, *large sheets of water* like those found in the towns of Enfield, Canaan, Sunapee, Hebron, Fairlee, Thetford, etc.; *Swamps and bogs*, both large and small; and *mountains* like Croydon, Smart's, Cube, and those associated with Killington Peak.

A very considerable number of plants found near our borders in regions like our own, without doubt belong to our Flora, and the assistance of all the lovers of Nature is requested in searching for them. Attention is called to a list of names at the end of the regular Catalogue, including species that may be expected, many, perhaps all of which, will be found sooner or later. A brief list is also given of plants supposed to be rare, about which information is wanted.

The primary object of the Catalogue being the benefit of the Editor's classes in Botany and the public at large, brief directions have been given for *collecting* and *preserving* plants, and *common names* have been added so far as known. For the same reason the arrangement and nomenclature are those of Gray's Manual of Botany.

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Important aid has been derived from a Catalogue of the Plants of New Hampshire compiled for the Geological Survey by Wm. F. Flint of Winchester. Acknowledgments are also due to F. H. Herrick of Tilton, L. J. Graves, M. D., of Claremont, and especially to Nathan Barrows, M. D., of Meriden, for information and personal assistance. From the Vermont side of the Connecticut river, many rare species have been reported from North Pomfret by Prof. A. P. Morgan; from Sharon by E. K. Baxter, M. D.; and from Union Village by Ferdinand Blanchard, M. D.; while Mt. Ascutney and the vicinity of Windsor have been most thoroughly explored by Mr. George H. Leland.

The students of the N. H. College of Agr. and the Mech. Arts, and those of the Chandler Scientific Department of Dartmouth College, have also contributed their share in various ways.

Localities not otherwise designated are in New Hampshire.

The names of *introduced* species are printed in SMALL CAPITALS. All of this class, like the OX-EYE DAISY, the DANDELION, the more common species of DOCK, BURDOCK, CANADA THISTLE, etc., are of interest, as showing that our native Flora has often to contend for possession with emigrants from other lands. More commonly these plants come in with the seeds used on the farm and in the garden. A few of them are found only near manufacturing establishments, imported with the raw material to be manufactured, and persisting it may be but a few seasons.

As the present Catalogue is only preliminary to one in the future which it is to be hoped will be more complete, Botanists will confer a favor by reporting all corrections, additions, and facts as to the distribution of species, *with specimens of the plants*, to the Editor, for future use, when due acknowledgments will be made. Some corrections will be found at the end.

A list of the Vertebrate Animals of the same district included in the Flora, is appended. The classification is that of Jordan's Manual of the Vertebrates of the Northern United States (Third Ed. 1880). Whatever of value there is in this portion of the Catalogue is due to Prof. T. W. D. Worthen of Dartmouth College, who carefully revised the manuscript, and corrected the proof-sheets.

Hanover, N. H., March 1, 1882. H. G. J.

# CATALOGUE OF PLANTS.

## SERIES 1.

### PHÆNOGAMOUS OR FLOWERING PLANTS.

### CLASS I. DICOTYLEDONOUS OR EXOGENOUS PLANTS.

### SUBCLASS I. ANGIOSPERMÆ.

### DIVISION I. POLYPETALOUS EXOGENOUS PLANTS.

#### ORDER 1. **RANUNCULACEÆ.** CROWFOOT FAMILY.

**Clematis,** L. Virgin's Bower.
verticillaris, DC. Windsor, Vt., *G. H. Leland;* rare.
Virginiana, L. Common.

**Anemone,** L. Wind-Flower.
cylindrica, Gray. Windsor and Norwich Vt.; not abundant.
Virginiana, L. Common.
nemorosa, L. Common.

**Hepatica,** Dill. Liver-leaf. Liverwort.
triloba, Chaix. Woods. More common southward.
acutiloba, DC. Woods. The more abundant species.

**Thalictrum,** Tourn. Meadow-Rue.
anemonoides, Michx. Claremont, *Dr. N. Barrows;* rare.
dioicum, L. (Early-Rue.) Woods.
Cornuti, L. (Late-Rue.)

**Ranunculus,** L. Crowfoot. Buttercup.

divaricatus, Schrank. Cold streams and ponds. Windsor, Vt., *Leland;* rare.

aquatilis, L., var. trichophyllus, Chaix. Slow streams, *Barrows;* rare.

multifidus, Pursh. *Barrows;* rare.

Flammula, L., var. reptans, Gray. Banks of Conn. river.

abortivus, L.

sceleratus, L. North Charlestown, *Dr. Graves.*

recurvatus, Poir.

Pennsylvanicus, L. Wet places.

fascicularis, Muhl. North Charlestown, *Dr. Graves.*

repens, L. Wet meadows.

BULBOSUS, L. Hanover, *F. P. Comings;* Meriden, *Barrows;* Norwich, Vt., *Blanchard.*

ACRIS, L. Common Buttercup.

**Caltha,** L. Marsh-Marigold.

palustris, L. Hanover; Lebanon; Norwich, Vt., etc.

**Coptis,** Salisb. Gold-thread.

trifolia, Salisb. Wet woods.

**Aquilegia,** Tourn. Columbine.

Canadensis, L. Rocks.

**Actæa,** L. Bane-berry.

spicata, L., var. rubra, Mx. Rich woods.

alba, Bigel. A little later in flowering.

**Cimicifuga,** L. Bugbane.

racemosa, L. Claremont, *Barrows;* not common.

ORDER 2. **MENISPERMACEÆ.** MOONSEED FAMILY.

**Menispermum,** L. Moonseed.

Canadense, L. Claremont, both sides of Conn. river. *Barrows.*

ORDER 3. **BERBERIDACEÆ.** BARBERRY FAMILY.

**Berberis,** L. Barberry.

VULGARIS, L. More commonly cultivated than wild.

**Caulophyllum,** Michx. Blue Cohosh.

thalictroides, Michx. Rich woods.

**Podophyllum,** L. Mandrake.
peltatum, L. Norwich, Vt., *E. A. Mack;* rare.

## Order 4. NYMPHÆACEÆ. Water-lily Family.

**Brasenia,** Schreber. Water-shield.
peltata, Pursh. In ponds.

**Nymphæa,** Tourn. Water-Lily.
odorata, Ait. In ponds.

**Nuphar,** Smith. Yellow Pond-Lily.
advena, Ait. (Cow Lily.)
luteum, Smith, var. pumilum, Gray. Hanover, *Barrows.*

## Order 5. SARRACENIACEÆ. Pitcher Plant Family.

**Sarracenia,** Tourn. Pitcher Plant.
purpurea, L. Lebanon; Meriden; Norwich and Sharon, Vt. In Sphagnum bogs.

## Order. 6. PAPAVERACEÆ. Poppy Family.

**Chelidonium,** L. Celandine.
MAJUS, L. Near dwellings.
**Sanguinaria,** Dill. Bloodroot.
Canadensis, L. Borders of rich woods.

## Order 7. FUMARIACEÆ. Fumitory Family.

**Adlumia,** Raf. Mountain Fringe.
cirrhosa, Raf. Claremont; Plainfield; Ludlow and Windsor, Vt.; not common.

**Dicentra,** Bork. Dicentra.
Cucullaria, DC. (Dutchman's Breeches.) Rich woods.
Canadensis, DC. (Squirrel-Corn.) Rich woods.

**Corydalis,** Vent.
glauca, Pursh. Rocky places and clearings.
aurea, Willd. Norwich, Vt.; near the Passumpsic R. R., *Jesup.*

**Fumaria,** L. Fumitory.
OFFICINALIS, L. A weed in gardens.

## Order 8. **CRUCIFERÆ.** Mustard Family.

**Nasturtium,** R. Br. Water-Cress.
- SYLVESTRE, R. Br. A weed in river meadows.
- palustre, DC. Wet places.
- ARMORACIA, Fries. (Horse Radish.) Rarely seen in fruit.

**Dentaria,** L. Pepper root.
- diphylla, L.
- maxima, Nutt. With the preceeding, but less common.
- laciniata, Muhl. Plainfield, *Barrows;* rare.

**Cardamine,** L. Bitter Cress.
- hirsuta, L. Wet ground.

**Arabis,** L. Rock-Cress.
- hirsuta, Scop. Rocky places.
- lævigata, DC. Woods and ravines; not common.
- perfoliata, Lam. Near the Conn. river, *Wm. H. Flint.*
- Drummondii, Gray. White River Junction and Norwich, Vt.

**Barbarea,** R. Br. Winter Cress.
- vulgaris, R. Br.

**Erysimum,** L. Treacle Mustard.
- cheiranthoides, L. Hanover; a weed in gardens.

**Sisymbrium,** L. Hedge Mustard.
- OFFICINALE, Scop.

**Brassica,** Tourn. Cabbage, Mustard, etc.
- CAMPESTRIS, L. (Kale.) Common in grain fields.
- SINAPISTRUM, Boissier. (English Charlock.) Plainfield, *Miss Mary M. Stevens;* not common.
- ALBA, Gray. (White Mustard.) Rare.
- NIGRA, Gray. (Black Mustard.)

**Capsella,** Vent. Shepherd's Purse.
- BURSA-PASTORIS, Moench.

**Thlaspi,** Tourn. Penny Cress.
- ARVENSE, L. Pomfret, Vt., *A. P. Morgan;* not common.

**Lepidium,** L. Pepper Grass.
- Virginicum, L.
- CAMPESTRE, L. Hanover, *C. H. Dana.*

**Raphanus,** L. Radish.
RAPHANISTRUM, L. (Jointed Charlock.) In grain fields.

## ORDER 9. VIOLACEÆ. VIOLET FAMILY.

**Viola,** L. Violet.
rotundifolia, Michx. Woods. The earliest species.
renifolia, Gray. n. sp. Not in the Manuals. Named from specimens collected in Hanover in 1870 by *F. A. Sherman;* common in rocky woods.
blanda, Willd. Moist grounds.
Selkirkii, Pursh, Goldie. Hillsides, not uncommon.
cucullata, Ait. Everywhere.
sagittata, Ait. Hanover, etc.; not abundant.
canina, L., var. sylvestris, Reg. Very common.
rostrata, Pursh. Common.
Canadensis, L. Common.
pubescens, Ait. Common.

## ORDER 10. CISTACEÆ. ROCK ROSE FAMILY.

**Helianthemum,** Tourn. Rock Rose.
Canadense, Michx. Gravelly soil.

**Lechea,** L. Pin-weed.
major, Michx. Dry fields.
minor, Lam. Dry fields.

## ORDER 11. DROSERACEÆ. SUNDEW FAMILY.

**Drosera,** L. Sundew.
rotundifolia, L. Wet places.
longifolia, L. Hanover; Plainfield, etc. About ponds.

## ORDER 12. HYPERICACEÆ. ST. JOHN'S-WORT FAMILY.

**Hypericum,** L. St. John's-wort.
pyramidatum, Ait. Lebanon; Pomfret and Windsor, Vt.
ellipticum, Hook.
PERFORATUM, L. (Common St. John's-wort.)
corymbosum, Muhl. Damp places.
mutilum, L. Damp places.
Canadense, L.
var. major, Gray. Not uncommon.
Sarothra, Michx. Sandy fields.

**Elodes,** Adans. Marsh St. John's-wort.
Virginica, Nutt. Swamps.

## Order 13. **CARYOPHYLLACEÆ.** Pink Family.

**Saponaria,** L. Soapwort.
officinalis, L. Roadsides; commonly double.

**Silene,** L. Catchfly.
inflata, Smith. Meriden; Hanover, etc.; often cultivated.
antirrhina, L. Waste places.

**Lychnis,** Tourn. Lychnis.
Githago, Lam. (Corn-cockles.) Hanover, in cultivated fields.

**Arenaria,** L. Sandwort.
serpyllifolia, L. Windsor, Vt., *Leland.*
stricta, Michx. Norwich, Vt., *Dr. F. Blanchard.*
Grœnlandica, Spreng. Moosilauke Mt., *W. H. Flint;* Kearsarge Mt., *Barrows.*
lateriflora, L.

**Stellaria,** L. Chickweed.
media, Smith. Common.
longifolia, Muhl. Among grass.
longipes, Goldie. Claremont, *Barrows.*
borealis, Bigel. Wet, shady, places.

**Cerastium,** L. Chickweed.
viscosum, L. Common.
arvense, L. Rocky pastures north of Windsor, Vt., *Flint.*

**Spergularia,** Pers. Sand-Spurrey.
rubra, Pres'l., var. campestris, Gray. Canaan; Claremont, *Barrows.* Gravelly soil.

**Spergula,** L. Spurrey.
arvensis, L. Hanover; Meriden, etc., in cultivated grounds.

**Anychia,** Michx. Forked-Chickweed.
dichotoma, Michx. Woods.

**Scleranthus,** L. Knawel.
annuus, L. Waste places.

**Mollugo,** L. Carpet-weed.
verticillata, L. Cultivated grounds.

## Order 14. PORTULACACEÆ. Purslane Family.

**Portulaca,** Tourn. Purslane.
OLERACEA, L. A common weed in gardens.

**Claytonia,** L. Spring-Beauty.
Caroliniana, Michx. Common.

**Malva,** L. Mallows.
ROTUNDIFOLIA, L. (Common Mallow.)
CRISPA, Gray. (Curled Mallow.) Occasionally seen on the roadsides.
MOSCHATA, L. (Musk Mallow.) Roadsides and fields.

**Abutilon,** Tourn. Indian Mallow.
AVICENNÆ, Gærtn. Roadsides and waste heaps.

## Order 15. TILIACEÆ. Linden Family.

**Tilia,** L. Basswood, Linden.
Americana, L.

## Order 16. LINACEÆ. Flax Family.

**Linum,** L. Flax.
Virginianum, L. (Wild Flax.)

## Order 17. GERANIACEÆ. Geranium Family.

**Geranium,** L. Cranesbill.
maculatum, L. Hanover; Norwich, Vt., etc.
Carolinianum, L. Not uncommon.
Robertianum, L. (Herb Robert.)

**Erodium,** L'Her. Storksbill.
CICUTARIUM, L'Her. Ludlow, Vt., *Miss Pollard.*

**Impatiens,** L. Balsam, Jewel-weed.
pallida, Nutt. Windsor and Hartland, Vt., etc., *Leland.*
fulva, Nutt. Common.

**Oxalis,** L. Wood-Sorrel.
Acetosella, L. (True Wood Sorrel.)
violacea, L. Cavendish, Vt., *Dr. Graves.* Very unusual so far north.
stricta, L. A common weed.

### Order 18. **RUTACEÆ.** Rue Family.

**Xanthoxylum,** Colden. Prickly-Ash.
Americanum, Mill. Claremont, *Barrows.*

### Order 19. **ANACARDIACEÆ.** Cashew Family.

**Rhus,** L. Sumach.
typhina, L. (Staghorn Sumach.)
glabra, L. (Smooth Sumach.)
copallina, L. Claremont, *Barrows.* Rare.
venenata, DC. (Poison Dogwood.) Claremont, *Barrows.* Not very common.
Toxicondendron, L. (Poison Ivy.) Very common.

### Order 20. **VITACEÆ.** Vine Family.

**Vitis,** Tourn. Grape.
Labrusca, L. (Fox grape.) Often cultivated; doubtful if native in this region.
æstivalis, Michx. (Summer grape.) Possibly native.
riparia, Michx. (Frost grape.) Common. This is V. cordifolia, var. riparia, of Gray's Manual (1870). Dr. Engelmann writes (1876): "I doubt if V. cordifolia grows at all in N. E." See his synopsis of the Genus in Am. Nat., Vol. VI, p. 539.

**Ampelopsis,** Michx. Woodbine. Virginia Creeper.
quinquefolia, Michx. Common.

### Order 21. **RHAMNACEÆ.** Buckthorn Family.

**Rhamnus,** Tourn. Buckthorn.
CATHARTICUS, L. Used for hedges; sometimes running wild.

**Ceanothus,** L. New Jersey Tea.
Americanus, L. Dry woodlands.

### Order 22. **CELASTRACEÆ.** Staff-tree Family.

**Celastrus,** L. Staff-tree.
scandens, L. (Climbing Bittersweet.) Along streams.

### Order 23. **SAPINDACEÆ.** Soap-berry Family.

**Staphylea,** L. Bladder-Nut.
trifolia, L. Claremont, Lebanon, etc.; Windsor, Vt.

**Acer,** Tourn. Maple.

Pennsylvanicum, L. (Striped Maple.)
spicatum, Lam. (Mountain Maple.)
saccharinum, Wang. (Sugar Maple. Rock Maple.)
var. nigrum, Gray. (Black Sugar Maple.) Probably not uncommon. Recognized by Michaux as a distinct species, and common outside of N. E. He noticed it "at Windsor, Vt., but of inferior size." (Mx. N. A. Sylva, Vol. I, p. 163.) It is seldom distinguished from the ordinary Sugar Maple.
dasycarpum, Ehrh. (White or Silver Maple.)
rubrum, L. (Red or Swamp Maple.)

## Order 24. POLYGALACEÆ. Milkwort Family.

**Polygala,** Tourn. Milkwort.

paucifolia, Willd. (Fringed Polygala.)
polygama, Malt. Claremont, *Barrows.*
sanguinea, L. Charlestown; Windsor, Vt., etc.
verticillata, L. Claremont, *Barrows.*

## Order 25. LEGUMINOSÆ. Pulse Family.

**Lupinus,** Tourn. Lupine.

perennis, L. Claremont, etc., *Barrows;* rare.

**Trifolium,** L. Clover.

arvense, L. (Stone Clover.)
pratense, L. (Red Clover.)
repens, L. (White Clover.)
AGRARIUM, L. (Yellow or Hop-Clover).
PROCUMBENS, L. Claremont, *Barrows.* Uncommon.

**Melilotus,** Tourn. Melilot.

OFFICINALIS, Willd. (Yellow Melilot.)
ALBA, Lam. (Sweet Clover.) Near dwellings.

**Medicago,** L. Medick.

SATIVA, L. (Lucerne.) Claremont, *Barrows;* Pomfret, Vt., *A. P. Morgan.*
INTERTEXTA, Willd. Claremont, *Barrows.*
LUPULINA, Linn. Claremont, *Barrows.*
MACULATA, Willd. Claremont, *Barrows.*
DENTICULATA, Willd. Claremont, *Barrows.*

The last four species introduced in foreign wool, and probably transient visitors.

**Robinia,** L. Locust-tree.
Pseudacacia, L. (Common Locust.)
VISCOSA, Vent. (Clammy Locust.)

**Astragalus,** L. Milk-Vetch.
alpinus, L. Sumner's Falls, Plainfield, *Flint;* rare.
Robbinsii, Gray. Sumner's Falls, *Flint;* Hartland, Vt., *Leland;* rare.

**Desmodium,** DC. Tick-Trefoil.
nudiflorum, DC. Dry woods; common.
acuminatum, DC. Common,
rotundifolium, DC.
Dillenii, Darl.
paniculatum, DC.
Canadense, DC. Common.
rigidum, DC.
Marilandicum, Boott.

**Lespedeza,** Michx. Bush-Clover.
violacea, Pers.
hirta, L. Dry hillsides.
capitata, Michx. Dry hillsides.

**Vicia,** Tourn. Vetch or Tare.
SATIVA, L. (Common Vetch.) Cultivated Fields.
Cracca, L. Infrequent.

**Apios,** Bœrhaave. Ground-nut.
tuberosa, Mœnch. Windsor, Vt., *Flint.*

**Amphicarpæa,** Ell. Hog Pea-nut.
monoica, Nutt. Borders of woods; very common.

**Cassia,** L. Senna.
Marilandica, L. Alluvial soil; not rare.

**Gleditschia,** L. Honey Locust.
triacanthus, L. Never truly wild in N. E. Common in cultivation.

ORDER 26. **ROSACEÆ.** ROSE FAMILY.

**Prunus,** Tourn. Plum. Cherry.
Americana, Marshall. (Wild Yellow Plum.) Not common.
pumila, L. (Dwarf Cherry.) Islands in the Conn. river.
Pennsylvanica, L. (Bird Cherry.)
Virginiana, L. (Choke Cherry.)
serotina, Ehrh. (Black Cherry.)

**Spiræa,** L. Meadow-Sweet.
salicifolia, L. Roadsides and pastures.
tomentosa, L. (Hardhack.)

**Agrimonia,** Tourn. Agrimony.
Eupatoria, L. Roadsides.

**Geum,** L. Avens.
album, Gmelin. Borders of woods.
Virginianum, L. Borders of woods.
strictum, Ait. Moist meadows.
rivale, L. (Water Avens.)

**Waldsteinia,** Willd.
fragarioides, Tratt. (Barren Strawberry.) Wooded hillsides.

**Potentilla,** L. Cinque-foil.
Norvegica, L.
Canndensis, L. (Common Five-finger.)
var. simplex, T. & Gray. Erect form of the preceeding.
argentea, L. Dry barren fields.
arguta, Pursh. Roadsides. Hanover; Lebanon, etc.
Anserina, L. (Silver-weed.) Claremont, *Barrows.* Near ponds and streams.
fruticosa, L. Claremont, *Barrows;* Chittenden, Vt., *Flint.* A shrub.
tridentata, Ait. Kearsarge Mt., *Barrows;* Moosilauke Mt., *Flint.*
palustris, Scop. (Marsh Five-finger.) Cold bogs.

**Fragaria,** Tourn. Strawberry.
Virginiana, Ehrh. (Field Strawberry.)
vesca, L. (Wood Strawberry.) Less common.

**Dalibarda,** L.
repens, L. Low woods; common.

**Rubus,** Tourn.
odoratus, L. (Flowering Raspberry.)
triflorus, Richardson.
strigosus, Michx. (Red Raspberry.)
occidentalis, L. (Black Raspberry.)
villosus, Ait. (High Blackberry.)
Canadensis, L. (Low Blackberry.)
hispidus, L.

**Rosa,** Tourn. Rose.
Carolina, L. (Swamp Rose.)
lucida, Ehrh. Dry woods and thickets; common.

blanda, Ait. Hillsides.
rubiginosa, L. (Sweet-brier.) Roadsides.

**Cratægus,** L. White Thorn.
coccinea, L. (Scarlet-fruited Thorn.) Common.
tomentosa, L. (Black Thorn.) Common but variable.
Crus-galli, L. Claremont, *Barrows.*

**Pyrus,** L. Pear. Apple.
arbutifolia, L. (Choke-berry.) Swamps, both varieties.
Americana, DC. (Mountain Ash.) Common.

**Amelanchier,** Medic. June-berry.
Canadensis, Torr. & Gray. (Shad-bush.)
var. Botryapium, Gray. The more common form.
var. oblongifolia, Gray. Not rare; two weeks later.

ORDER 27. **SAXIFRAGACEÆ.** SAXIFRAGE FAMILY.

**Ribes,** L. Currant, Gooseberry.
Cynosbati, L. (Prickly Gooseberry.) Common.
hirtellum, Mich. (Smooth Gooseberry.) Meriden; Hanover; Union Village, Vt.
lacustre, Poir. Hanover; Meriden; Mt. Ascutney, Vt.
prostratum, L'Her. Fetid Currant.) Common.
floridum, L. (Wild Black Currant.) Common.
rubrum, L. (Red Currant.) Sometimes found wild. Native in Maine.
aureum, Pursh. (Missouri Currant.) Common in cultivation, and persisting for years about old homesteads.

**Parnassia,** Tourn.
Caroliniana, Michx. Queechy Gulf, Hartland; Norwich, Vt., etc. Not common.

**Saxifraga,** L. Saxifrage.
Virginiensis, Michx. (Rock Saxifrage.)
Pennsylvanica, L. (Swamp Saxifrage.)

**Mitella,** Tourn. Mitrewort.
diphylla, L. Hillsides in rich woods.
nuda, L. Wet woods. Hanover; Norwich, Vt., etc.

**Tiarella,** L. False Mitrewort.
cordifolia, L. Common in moist ground.

**Chrysosplenium,** Tourn. Golden Saxifrage.
Americanum, Schw. Wet places.

ORDER 28. **CRASSULACEÆ.** ORPINE FAMILY.

**Penthorum,** Gronov. Ditch Stone-crop.
sedoides, L. Open wet places.

**Sedum,** Tourn. Stone-crop.
ACRE, L. (Mossy Stone-crop.) Norwich, Vt.; on rocks.
TELEPHIUM, L. (Live-for-ever.) Very widely distributed.

ORDER 29. **HAMAMELACEÆ.** WITCH-HAZEL FAMILY.

**Hamamelis,** L. Witch-Hazel.
Virginica, L. Peculiar for blooming in October.

ORDER 30. **HALORAGEÆ.** WATER-MILFOIL FAMILY.

**Myriophyllum,** Vaill. Water-Milfoil.
spicatum, L. Enfield Pond; *Jesup.*
tenellum, Bigel. Shores of Enfield Pond; *Jesup.*

**Proserpinaca,** L. Mermaid-weed.
palustris, L. Swamps and ditches.

ORDER 31. **ONAGRACEÆ.** EVENING PRIMROSE FAMILY.

**Circæa,** Tourn. Enchanter's Nightshade.
Lutetiana, L. Damp shades; common.
alpina, L. Rocky, wet woodlands.

**Epilobium,** L. Willow-herb.
angustifolium, L. (Often called "Fire-weed.") Common.
palustre, L., var. lineare, Gray. Bogs.
molle, Torr. Claremont. *Barrows.*
coloratum, Muhl. Wet places.

**Œnothera,** L. Evening Primrose.
biennis, L. Fields and roadsides everywhere.
pumila, L. Dry fields; common.

**Ludwigea,** L.
palustris, L. (Water purslane.) Ditches.

ORDER 32. **LYTHRACEÆ.** LOOSESTRIFE FAMILY.

**Lythrum,** L. Loose-strife.
Salicaria, L. Claremont, *Dr. Graves;* often cultivated.

## Order 33. **CUCURBITACEÆ.** Cucumber Family.

**Sicyos,** L. Star-Cucumber.
angulatus, L. Wet shady places; not common.

**Echinocystis,** Torr. & Gray. Balsam-Apple.
lobata, Torr. & Gray. Banks of streams. Sharon, Vt., etc.

## Order 34. **UMBELLIFERÆ.** Parsley Family.

**Hydrocotyle,** Tourn. Water Pennywort.
Americana, L. Wet places; common.

**Sanicula,** Tourn. Sanicle.
Canadensis, L. Woods.
Marilandica, L. With the preceeding but more common.

**Daucus,** Tourn. Wild Carrot.
Carota, L. A noxious weed.

**Heracleum,,** L. Cow-Parsnip.
lanatum, Michx. Moist rich grounds.

**Pastinaca,** Tourn. Wild Parsnip.
sativa, L. Fields.

**Archangelica,** Hoffm.
atropurpurea, Hoffm. River banks.

**Ligusticum,** L. Lovage.
Scoticum, L. Near dwellings.

**Thaspium,** Nutt. Meadow-Parsnip
aureum, Nutt. Moist Meadows.

**Cicuta,** L. Water-Hemlock.
maculata, L. Root very poisonous.
bulbifera, L. Swamps; seldom fruiting.

**Sium,** L. Water-Parsnip.
lineare, Michx. Wet places.

**Cryptotænia,** DC. Honewort.
Canadensis, DC. Thickets.

**Osmorrhiza,** Raf. Sweet Cicely.

longistylis, DC. Rich moist woods.

brevistylis, DC. With, and more common than, the preceeding.

**Conium,** L. Poison Hemlock.

MACULATUM, L. On waste heaps; a virulent poison.

ORDER 35. **ARALIACEÆ.** GINSENG FAMILY.

**Aralia,** Tourn.

racemosa, Tourn. (Spikenard.) Often cultivated.

hispida, Michx. Rocky places.

nudicaulis, L. (Wild Sarsaparilla.)

quinquefolia, Gray. (Ginseng.) Rich woods.

trifolia, Gray. (Dwarf Ginseng. Groundnut.)

ORDER 36. **CORNACEÆ.** DOGWOOD FAMILY.

**Cornus,** Tourn. Dogwood.

Canadensis, L. (Bunch-Berry.)

florida, L. (Flowering Dogwood.) Plainfield, *Miss Stevens;* Springfield, Vt., *Rev. S. Hayward;* rare so far northward.

circinata, L'Her. In rich woodlands. Hanover; West Hartford, Vt., *Flint.*

sericea, L. Borders of ponds.

stolonifera, Michx. (Red-osier Dogwood.)

paniculata, L'Her. Charlestown, *Dr. Graves;* rare.

alternifolia, L. Common.

## Division II. MONOPETALOUS EXOGENOUS PLANTS.

### Order 37. **CAPRIFOLIACEÆ.** Honeysuckle Family.

**Linnæa,** Gronov. Twin-flower.
borealis, Gronov. Common in bogs and mossy woods.

**Lonicera,** L. Honeysuckle.
parviflora, Lam. (Twining Honeysuckle.) Norwich, Vt., etc.
ciliata, Muhl. (Fly-Honeysuckle.) Rocky woods.
cærulea, L. Claremont, *Barrows.*

**Diervilla,** Tourn.
trifida, Mœnch. (Bush Honeysuckle.) Common.

**Triosteum,** L. Fever-wort.
perfoliatum, L. White River Junction and Norwich, Vt., etc.

**Sambucus,** Tourn. Elder.
Canadensis, L. (Black-berried Elder.)
pubens, Michx. (Red-berried Elder.)

**Viburnum,** L. Arrow-wood.
Lentago, L. Rocky woods,
nudum, L. Swamps in Lebanon, etc.
dentatum, L. Wət places.
acerifolium, L. Rocky woods; common.
pauciflorum, Pylaie. Claremont, *Barrows;* belongs farther northward.
Opulus, L. (High Cranberry.) Hanover; Lebanon, etc.; not common.
lantanoides, Michx. (Hobble-bush.)

### Order 38. **RUBIACEÆ.** Madder Family.

**Galium,** L. Bedstraw. Cleavers.
asprellum, Michx. Low thickets.
trifidum, L. Swamps.
triflorum, Michx. Rich woodlands.
circæzans, Michx. Woods.
lanceolatum, Torr. Pomfret, *Morgan.*

**Cephalanthus,** L. Button Bush.
occidentalis, L. New Found Lake, *Barrows*

**Mitchella,** L. Partridge-berry.
repens, L. Dry woods; common under trees.

**Houstonia,** L.
cærulea, L. (Bluets.) Pastures.

## Order 39. COMPOSITÆ. Composite Family.

**Eupatorium,** Tourn.
purpureum, L. Common in swamps.
perfoliatum, L. (Thoroughwort.) Low grounds.
ageratoides, L. (White Snakeroot.) Rich woods.

**Tussilago,** Tourn. Coltsfoot.
Farfara, L. Clayey soil, along brooks.

**Sericocarpus,** Nees. White-topped Aster.
conyzoides, Nees. Dry grounds.

**Aster,** L. Starwort.
corymbosus, Ait. Woodlands.
macrophyllus, L. Borders of woods.
patens, Ait. Dry grounds.
lævis, L., var. cyaneus, Gray. Woodlands.
undulatus, L. Dry woods.
cordifolius, L. Woodlands; very common.
ericoides, L. More common southward.
mutiflorus, Ait. Claremont, *Dr. Graves.*
dumosus, L. Claremont, *Barrows;* scarce.
Tradescanti, L. Roadsides.
miser, L., Ait. Thickets.
simplex, Willd. Moist banks.
tenuifolius, L. With the preceeding and much like it.
longifolius, Lam. Along streams.
puniceus, L. Swamps.
graminifolius, Pursh. Queechy Gulf, Vt., *Jesup;* rare.
acuminatus, Michx. Rich woods; frequent.

**Erigeron,** L. Fleabane.
Canadense, L. (Horseweed.)
bellidifolium, Muhl. Moist meadows and banks.
Philadelphicum, L. Moist grounds.
annuum, Pers. Fields and waste places.
strigosum, Muhl. A coarser plant than the above.

**Diplopappus,** Cass. Double-bristled Aster.
linariifolius, Hook. Dry grounds.
umbellatus, Torr. & Gray. Moist thickets; common.

**Solidago,** L. Golden-rod.
squarrosa, Muhl. Claremont, *Graves;* Windsor, Vt., *Flint.*
bicolor, L. Dry banks; also a yellow variety.
latifolia, L. Shaded banks.
cæsia, L. Woods.
stricta, Ait. Sharon, Vt., *Dr. Baxter;* Peat bogs, *Jesup.*
Virga-aurea, L. Moosilauke Mt., *Flint;* Killington Peak, Vt.
thyrsoidea, E. Meyer. Mt. Ascutney, *Leland.*
arguta, Ait. Borders of woodlands.
Muhlenbergii, Torr. & Gray. Borders of woods.
altissima, L. Fields; common.
nemoralis, Ait. Dry sterile fields; very common.
Canadensis, L. Fields and roadsides.
serotina, Ait. Banks of streams, etc.
lanceolata, L. Roadsides, etc.

**Inula,** L. Elecampane.
HELENIUM, L. A coarse plant on roadsides and in pastures.

**Ambrosia,** Tourn. Ragweed.
trifida, L. (Great Ragweed.)
artemisiæfolia, L. (Roman Wormwood.)

**Xanthium,** Tourn. Cocklebur.
SPINOSUM, L. On waste heaps.
strumarium, L. White River Junction, Vt., *Flint.*

**Rudbeckia,** L. Cone-flower.
hirta, L. Introduced into meadows from the western states.
laciniata, L. Low grounds.

**Helianthus,** L. Sunflower.
strumosus, L. Charlestown, *Graves.*
divaricatus, L.
decapetalus, L. Banks of streams, etc.
TUBEROSUS, L. (Artichoke.) Escaped from gardens.

**Bidens,** L. Bur-marigold.
frondosa, L. The entire genus found in swamps and wet places.
connata, Muhl.
cernua, Muhl. Not well distinguished from the next.
chrysanthemoides, Michx.
Beckii, Torr. Claremont, *Barrows.* Ponds and streams; quite rare.

**Maruta,** Cass.
COTULA, DC. (May-weed.) Roadsides everywhere.

**Achillea,** L. Yarrow.
Millefolium, L. Fields; common.

**Leucanthemum,** Tourn. Ox-eye Daisy. White-weed.
VULGARE,, Lam. Meadows; everywhere.

**Tanacetum,** L. Tansy.
VULGARE, L. Roadsides commonly.

**Artemisia,** L. Wormwood.
VULGARIS, L. (Mugwort.) Near dwellings.

**Gnaphalium,** L. Cudweed.
decurrens, Ives. (Everlasting.) Old fields.
polycephalum, Michx. (Common Everlasting.)
uliginosum, L. (Low Cudweed.) Roadsides.

**Antennaria,** Gartn. Everlasting.
margaritiacea, R. B. (Pearly Everlasting.)
plantaginifolia, Hook. Sterile banks.

**Erechthites,** Raf. Fireweed.
hieracifolia, Raf. Clearings that have been burned over.

**Senecio,** L. Groundsel.
VULGARIS, L. In cultivated grounds; not common.
aureus, L. (Golden Ragwort.) Several varieties.

**Cirsium,** Tourn. Thistle.
LANCEOLATUM, Scop. (Common Thistle.)
discolor, Spreng.
muticum, Michx. (Swamp Thistle.)
pumilum, Spreng. (Pasture Thistle.)
ARVENSE, Scop. (Canada Thistle.)

**Lappa,** Tourn. Burdock.
OFFICINALIS, Allioni. Too common.

**Cichorium,** Tourn. Chicory or Succory.
INTYBUS, L. Fields and roadsides. Hanover, etc.

**Krigia,** Schreber. Dwarf Dandelion.
VIRGINICA, Wild. Hanover; Hartford, Vt., etc.

**Hieracium,** Tourn. Hawkweed.
Canadense, Michx. Dry woods.
scabrum, Michx. Dry woods.
Gronovii, L. Not common.
venosum, L. (Rattlesnake Weed.) Woods and plains.
paniculatum, L. Open woods.

**Nabalus,** Cass.
albus, Hook. Borders of rich woods.
altissimus, Hook. Rich wooded hillsides.
Fraseri, DC. More open places than the preceeding.

**Taraxacum,** Haller. Dandelion.
DENS-LEONIS, Desf. Fields and pastures.

**Lactuca,** Tourn. Wild Lettuce.
Canadensis, L. Borders of fields.
var. integrifolia, Torr. & Gray. Dry soil.
var. sanguinea. Torr. & Gray. Not uncommon.

**Mulgedium,** Cass. Blue Lettuce.
leucophæum, DC. Low grounds.

**Sonchus,** L. Sow-Thistle.
OLERACEUS. L. Waste heaps.
ASPER, Vill. North Pomfret, Vt., *A. P. Morgan.*

## ORDER 40. LOBELIACEÆ. LOBELIA FAMILY.

**Lobelia,** L.
cardinalis, L. (Cardinal Flower.) Swamps. Lebanon; Canaan; Hanover, etc.
inflata, L. (Indian Tobacco.) Fields.
spicata, Lam.
Kalmii, L. Near ponds and streams. Pomfret, Vt., *Morgan;* Sharon, Vt., *Dr. Baxter.*
Dortmanna, L. (Water Lobelia.) In ponds.

## ORDER 41. CAMPANULACEÆ. CAMPANULA FAMILY.

**Campanula,** Tourn. Bellflower.
rotundifolia, L. (Hare bell.) Rocky or sandy banks.
aparinoides, Pursh. Wet meadows.
RAPUNCULOIDES, L. Escaped from gardens.

**Specularia,** Heister,
perfoliata, A. DC. Sterile grounds.

## Order 42. ERICACEÆ. Heath Family.

**Gaylussacia,** H. B. K.
resinosa, Torr. & Gray. (Huckleberry.)

**Vaccinium,** L.
Oxycoccus, L. (Small Cranberry.) Bogs.
macrocarpon, Ait. (Common Cranberry.) Bogs.
Vitis-Idæa, L. Moosilauke Mt., *Flint.*
uliginosum, L. Moosilauke Mt., *Flint.*
Pennsylvanicum, Lam. (Low Blueberry.)
Canadense, Kalm. (Canada Blueberry.)
vacillans, Solander. N. Pomfret, Vt., *Morgan.*
corymbosum, L. (High or Swamp Blueberry.)

**Chiogenes,** Salisb. Creeping Snowberry.
hispidula, Torr. & Gray. Bogs and mountain woods.

**Epigæa,** L. Trailing Arbutus. May Flower.
repens, L. Woods and clearings.

**Gaultheria,** Kalm. Wintergreen or Checkerberry.
procumbens, L. Woods.

**Cassandra,** Don. Leather-Leaf.
calyculata, Don. Swamps.

**Andromeda,** L.
polifolia, L. Sphagnum bogs. Lebanon; Meriden, etc.

**Kalmia,** L. Laurel.
angustifolia, L. (Sheep Laurel.) Common.
glauca, Ait. (Pale Laurel.) Cold bogs. Lebanon; Meriden, etc.

**Azalea,** L. False Honeysuckle.
nudiflora, L. Swamps. Lebanon; Norwich, Windsor, and Ludlow, Vt.; not abundant.

**Rhodora,** Duhamel.
Canadensis, L. Swamps. Meriden, *Barrows.*

**Ledum,** L. Labrador Tea.
latifolium, Ait. Cold bogs and mountain woods. Lebanon, *E. A. Mack.*

**Pyrola,** Tourn.
rotundifolia, L. Woods; several varieties.
elliptica, Nutt. Woods.

chlorantha, Swartz. Woods.
secunda, L. Woods.

**Moneses,** Salisb. One-flowered Pyrola.
uniflora, Gray. Woods. Lebanon and Hanover; Norwich, Vt.

**Chimaphila,** Pursh. Pipsissewa.
umbellata, Nutt. (Prince's Pine.) Dry woods.

**Monotropa,** L.
uniflora, L. (Indian Pipe.) Dark woods; common.
Hypopitys, L. (Pine sap.) Under Pine trees. N. Pomfret, *Morgan.*

## Order 43. AQUIFOLIACEÆ. Holly Family.

**Ilex,** L. Holly.
verticillata, Gray. (Black Alder.) Low grounds.

**Nemopanthes,** Raf. Mountain Holly.
Canadensis, DC. Wet cold woods.

## Order 44. PLANTAGINACEÆ. Plantain Family.

**Plantago,** L. Plantain.
MAJOR, L. (Common Plantain.)
Rugellii, Dec. As common as the preceeding and generally mistaken for it, *Jesup.* (Gray's Flora of N. A. Vol. II, Part 1, p. 389.)
lanceolata, L. (Rib-grass.) Dooryards and dry fields.

## Order 45. PRIMULACEÆ. Primrose Family.

**Trientalis,** L.
Americana, Pursh. (Star-flower.) Wet woods.

**Lysimachia,** Tourn. Loosestrife.
thyrsiflora, L. Mud Pond, Plainfield, *Barrows;* rare.
stricta, Ait. Low grounds.
quadrifolia, L. Woods.
ciliata, L.
NUMMULARIA, L. (Money-wort.) Door yards.

## Order 46. LENTIBULACEÆ. Bladderwort Family.

**Utricularia,** L. Bladderwort.
inflata, Walt. Claremont, *Dr. Graves.* Ponds.
vulgaris, L. (Common Bladderwort.) Ponds.
minor, L. Claremont, *Barrows.*

intermedia, Hayne. Marshes and shallow pools.
gibba, L. Claremont, *Barrows.*
purpurea, Walt. Goose Pond, Canaan.
cornuta, Mx. Sandy margins of ponds, Plainfield, etc.

## Order 47. OROBANCHACEÆ. Broom-rape Family.

**Epiphegus,** Nutt. Beech-drops.
Virginiana, Bart. Usually under Beech trees. Hanover; Norwich, Vt.

**Conopholis,** Wallroth. Cancer-root.
Americana, Wallroth. In old woods. Claremont, *Dr. Graves;* rare.

**Aphyllon,** Mitchell. Naked Broom-rape.
uniflorum, Torr. & Gray. Borders of woods; not rare.

## Order 48. SCROPHULARIACEÆ. Figwort Family.

**Verbascum,** L.
Thapsus, L. (Mullein.)
Blattaria, L. (Moth-Mullein.) Less common.

**Linaria,** Tourn. Flax.
Canadensis, Spreng.
vulgaris, L. (Toad Flax.) Roadsides.

**Chelone,** Tourn. Turtle-head.
glabra, L. Wet places; common.

**Pentstemon,** Mitchell.
pubescens, Solander. Windsor, Vt., *Leland;* Norwich, Vt., *G. A. Loveland.*

**Mimulus,** L. Monkey-flower.
ringens, L. Wet places; common.

**Gratiola,** L.
aurea, Muhl. Margins of ponds. Meriden, *Barrows.*

**Ilysanthes,** Raf.
gratioloides, Benth. Sandy borders of ponds and streams.

**Veronica,** L. Speedwell.
Americana, Schwein. Brooks and ditches.
scutellata, L. Bogs.
officinalis, L. Claremont, *Barrows.*
serpyllifolia, L. Among grass.

peregrina, L. A weed in cultivated grounds.
ARVENSIS, L. Claremont, *Barrows.*
BUXBAUMII, Tenore. Hanover; a weed in gardens and lawns.

**Gerardia,** L. False Foxglove.
tenuifolia, Vahl. Dry woods.
quercifolia, Pursh. Wooded hillsides.
pedicularia, L.

**Pedicularis,** Tourn. Lousewort.
Canadensis, L. Hanover, etc. Woods and banks.

**Melampyrum,** Tourn. Cow-wheat.
Americanum, Michx. Woods.

## ORDER 49. VERBENACEÆ. VERVAIN FAMILY.

**Verbena,** L. Vervain.
hastata, L. Fields and roadsides.
urticifolia, L.

**Phryma,** L. Lopseed.
Leptostachya, L. Woods.

## ORDER 50. LABIATÆ. MINT FAMILY.

**Teucrium,** L. Germander.
Canadense, L. Near Conn. river. Hanover, etc.

**Trichostema,** L. Blue-curls.
dichotomum, L. Sandy fields.

**Mentha,** L. Mint.
viridis, L. (Spearmint.)
piperita, L. (Peppermint.)
Canadensis, L. Like the above, in wet plaees.

**Lycopus,** L. Water Horehound.
Virginicus, L. (Bugle-weed.) Marshes.
Europæus, L., var. sinuatus, Gray. Common in wet grounds.

**Pycnanthemum,** Michx. Mountain Mint.
incanum, Michx. Claremont, *Barrows;* rare.
lanceolatum, Pursh. Claremont, *Barrows;* not common.

**Origanum,** L. Wild Marjoram.
VULGARE, L. Claremont, *Barrows;* rare.

**Calamintha,** Mœnch. Calaminth.
Clinopodium, Benth. (Wild Basil.) Low woods.

**Hedeoma,** Pers. American Pennyroyal.
pulegioides, Pers. Barren fields. Common.

**Monarda,** L. Horse-Mint.
didyma, L. In gardens, called "Bee Balm;" infrequent.
punctata, L. (Horse-Mint.) Claremont, *Barrows;* rare.

**Nepeta,** L.
CATARIA, L. (Catnip.) Near dwellings.
GLECHOMA, Benth. (Ground Ivy.) Dooryards, etc.

**Brunella,** Tourn. Self-heal.
vulgaris, L. Fields; common.

**Scutellaria,** L. Skullcap.
galericulata, L. Wet shady places.
lateriflora, L. Wet shady places.

**Marrubium,** L. Horehound.
VULGARE, L. Escaped from gardens into waste places.

**Galeopsis,** L. Hemp-Nettle.
TETRAHIT, L. Waste places; common.
LADANUM, L. Hanover, etc., *Flint;* rare.

**Stachys,** L. Hedge-Nettle.
palustris, L., var. aspera, Gray. Near streams.

**Leonurus,** L. Motherwort.
CARDIACA, L. Around dwellings.

**Lamium,** L. Dead-Nettle.
AMPLEXICAULE, L. Cultivated grounds; not common.
PURPUREUM, L. A garden escape.

## ORDER 51. **BORRAGINACEÆ.** BORAGE FAMILY.

**Echium,** Tourn. Bugloss.
VULGARE, L. Pomfret and Sharon, Vt.; scarce.

**Symphytum,** Tourn. Comfrey.
OFFICINALE, L. A not common garden escape.

**Lithospermum,** Tourn. Gromwell.
ARVENSE, L. West Lebanon, *Dr. E. E. Phelps;* rare.
OFFICINALE, L. Roadsides and pastures.

**Myosotis,** L. Forget-me-not.
palustris, Withering, var. laxa, Gray. Hanover; Sharon, Vt., *Dr. Baxter.*
arvensis, Hoffm. Sharon, Vt., *Dr. Baxter;* scarce.
verna, Nutt. Windsor, Vt., *Leland;* not uncommon.

**Echinospermum,** Swartz. Stickseed.
LAPPULA, Lehm. Waste heaps.

**Cynoglossum,** Tourn. Hound's Tongue.
OFFICINALE, L. Waste grounds.
Morisoni, DC. (Beggar's Lice.)

## ORDER 52. HYDROPHYLLACEÆ. WATER-LEAF FAMILY.

**Hydrophyllum,** B.
Virginicum, L. (Common Water-leaf.) Damp woods.

## ORDER 53. CONVOLVULACEÆ. CONVOLVULUS FAMILY.

**Ipomœa,** Lam. Morning-glory.
PURPUREA, Lam. Around dwellings.

**Calystegia,** R. Br. Bracted Bindweed.
sepium, R. Br. (Hedge Bindweed.)
spithamæa, Pursh. Norwich, Vt., *E. D. Kelley.*

**Cuscuta,** Tourn. Dodder.
GRONOVII, Willd. Low grounds; parasitic on herbs, etc.

## ORDER 54. SOLANACEÆ. NIGHTSHADE FAMILY.

**Solanum,** Tourn. Nightshade.
DULCAMARA, L. (Bittersweet.)
NIGRUM, L. (Common Nightshade.)

**Physalis,** L. Ground Cherry.
viscosa, L. Sandy soils.

**Nicandra,** Adans. Apple of Peru.
PHYSALOIDES, Gærtn. Not common.

**Lycium,** L. Matrimony-Vine.
VULGARE, Dunal. Near dwellings where it once was cultivated.

**Hyoscyamus,** Tourn. Henbane.
NIGER, L. Rarely seen.

**Datura,** L. Jamestown-weed.
STRAMONIUM, L. Waste heaps.
TATULA, L. Waste heaps.

## ORDER 55. GENTIANACEÆ. GENTIAN FAMILY.

**Gentiana,** L. Gentian.
quinqueflora, Lam. Hillside woods and fields. Hanover; Lebanon, etc., *Jesup.*
crinita, Frœl. Moist grounds. Hanover Centre; Lyme, etc.
Andrewsii, Griseb. More common than the above.

**Menyanthes,** Tourn. Buckbean.
trifoliata, L. In ponds and bogs. Hanover; Meriden; Norwich, Vt., etc.

**Limnanthemum,** Gmelin. Floating-Heart.
lacunosum, Griseb. In ponds; common.

## ORDER 56. APOCYNACEÆ. DOGBANE FAMILY.

**Apocynum,** Tourn.
cannabinum, L. (Indian Hemp. River banks.
androsæmifolium, L. (Dogbane.) Borders of thickets.

## ORDER 57. ASCLEPIADACEÆ. MILKWEED FAMILY.

**Asclepias,** L. Milkweed.
Cornuti, Decaisne. Common.
phytolaccoides, Pursh. Common.
purpurascens, L. Charlestown, *Dr. Graves.*
quadrifolia, Jacq. Woods; not rare.
incarnata, L. Swamps.
obtusifolia, Michx. Roadsides; not common.
tuberosa, L. (Butterfly-weed.) Dry fields.

**Vincetoxicum,** Mœnch.
NIGRUM, Mœnch. Windsor, Vt., *Leland;* rare.

## Order 58. **OLEACEÆ.** Olive Family.

**Ligustrum,** Tourn. Privet.

VULGARE, L. Naturalized in places. *Barrows.*

**Fraxinus,** Tourn. Ash.

Americana, L. (White Ash.)

pubescens, Lam. (Red Ash.) Perhaps rarely met with.

sambucifolia, L. (Black Ash.) Swamps.

## Division III. APETALOUS EXOGENOUS PLANTS.

### Order 59. **ARISTOLOCHIACEÆ.** Birthwort Family.

**Asarum,** Tourn. Wild Ginger.
Canadense, L. Rich woods.

### Order 60. **PHYTOLACCACEÆ.** Pokeweed Family.

**Phytolacca,** Tourn. Pokeweed.
decandra, L. Roadsides, *Barrows.*

### Order 61. **CHENOPODIACEÆ.** Goosefoot Family.

**Chenopodium,** L. Pigweed.
polyspermum, L. Claremont, *Barrows.*
album, L.
urbicum, L. Claremont, *Barrows.*
hybridum, L.
Botrys, L. Claremont, *Barrows.*
ambrosioides. L., var. anthelminticum, G. Claremont, *Barrows.*
multifidum, L. Claremont, *Barrows.* All the above are weeds near cultivated grounds or dwellings.

**Blitum,** Tourn. Blight.
Bonus-Henricus, Reich. Around dwellings; infrequent.

### Order 62. **AMARANTACEÆ.** Amaranth Family.

**Amarantus,** Tourn. Amaranth.
hypochondriacus, L. Escaped from gardens.
paniculatus, L. A weed in gardens.
retroflexus, L. (Common Pigweed.)
hybridus, L. Waste grounds.
albus, L. A coarse weed like most of the above.

### Order 63. **POLYGONACEÆ.** Buckwheat Family.

**Polygonum,** L. Knotweed. Smartweed.
orientale, L. (Prince's Feather.) In old gardens.
Pennsylvanicum, L. Fields.
Persicaria, L. (Lady's Thumb.) Fields.

Hydropiper, L. (Water-pepper.)
acre, H. B. K. (Water Smartweed.)
hydropiperoides, Michx. Shallow water.
amphibium, L. Windsor, Vt., *Leland.* In or near ponds.
Virginianum, L. Banks of Conn. river. Windsor, Vt., *Leland.*
aviculare, L. (Knotgrass.) Roadsides; dooryards, etc.
var. erectum, Roth. Common and now considered a distinct species.
arifolium, L. Wet grounds.
sagittatum, L. Wet grounds.
CONVOLVULUS, L. (Black Bindweed.)
cilinode, Michx. On fences, etc.
dumetorum, L. Fences, etc.

**Fagopyrum,** Tourn. Buckwheat.
ESCULENTUM, Mœnch. Old fields.

**Rumex,** L. Dock. Sorrel.
orbiculatus, Gray. Swamps.
Brittanica, L. Claremont, *Barrows.*
CRISPUS, L. (Curled Dock.) Very common.
OBTUSIFOLIUS, L. Fields and roadsides.
ACETOSELLA, L. (Sheep Sorrel.) Dry fields.

## ORDER 64. LAURACEÆ. LAUREL FAMILY.

**Sassafras,** Ness.
officinale, Ness. Plainfield, *Miss Stevens;* Springfield, Vt., *Rev. S. Hayward;* more common southward.

## ORDER 65. THYMELEACEÆ. MEZEREUM FAMILY.

**Dirca,** L. Leatherwood.
palustris, L. Rich woods; sometimes in swamps.

## ORDER 66. CERATOPHYLLACEÆ. HORNWORT FAMILY.

**Ceratophyllum,** L.
demersum, L. Goose Pond in Canaan, etc., *Jesup.*

## ORDER 67. CALLITRICHACEÆ. WATER-STARWORTS.

**Callitriche,** L.
verna, L. Ponds; common.

## Order 68. EUPHORBIACEÆ. Spurge Family.

**Euphorbia,** L. Spurge.
- Cyparissias, L. (Cypress Spurge.) Roadsides.
- hypericifolia, L. Roadsides and gardens.
- maculata, L. A common weed, like the above.
- Peplus, L. Dooryards. Hanover, *Jesup.*

**Acalypha,** L. Three-seeded Mercury.
- Virginica, L. A weed in cultivated grounds.

## Order 69. EMPETRACEÆ. Crowberry Family.

**Empetrum,** Tourn. Crowberry.
- nigrum, L. Moosilauke Mt., *Rev. J. Blake.*

## Order 70. URTICACEÆ. Nettle Family.

**Ulmus,** L. Elm.
- fulva, Michx. (Red Elm. Slippery Elm.) Banks of streams.
- Americana, L. (Common Elm.)
- racemosa, Thomas. (Corky White Elm.) Meriden, *Barrows;* rare.

**Celtis,** Tourn. Hackberry.
- occidentalis, L. Banks of Conn river, throughout the district.

**Morus,** Tourn. Mulberry Tree.
- rubra, L. Norwich, Vt., *Dr. Blanchard.*
- alba, L. Formerly cultivated; rarely spontaneous.

**Urtica,** Tourn. Nettle.
- gracilis, Ait. (Common Nettle.)
- urens, L. Claremont, *Barrows;* rare.

**Laportea,** Gaudichaud.
- Canadensis, Gaudich. (Wood Nettle.)

**Pilea,** Lindl.
- pumila, Gray. (Clearweed.)

**Bœhmeria,** Jacq. False Nettle.
- cylindrica, Willd.

**Cannabis,** Tourn.
- sativa, L. (Hemp.) Roadsides.

**Humulus,** L. Hopvine.
Lupulus, L. Roadsides.

### Order 71. PLATANACEÆ. Plane-tree Family.

**Platanus,** L. Plane Tree.
occidentalis, L. (Buttonwood or Sycamore.) Meriden; Hartford and Sharon, Vt. Not abundant so far north.

### Order 72. JUGLANDACEÆ. Walnut Family.

**Juglans,** L. Walnut.
cinerea, L. (Butternut.) Very common.

**Carya,** Nutt. Hickory.
alba, Nutt. (Shell-bark Hickory.) Claremont, *Barrows;* scarce.
porcina, Nutt. (Pig-nut. Hog Walnut.) Common.
amara, Nutt. (Bitter-nut.) Claremont, *Barrows.*

### Order 73. CUPULIFERÆ. Oak Family.

**Quercus,** L. Oak.
alba, L. (White Oak.)
coccinea, Wang. var. tinctoria, Gray. (Black Oak.) North Charlestown, *Flint.*
rubra, L. (Red Oak.) The most common species.

**Castanea,** Tourn. Chestnut.
vesca, L. Infrequent. Claremont is nearly its northern limit.

**Fagus,** Tourn. Beech.
ferruginea, Ait. Varies greatly; wood light-colored or reddish.

**Corylus,** Tourn. Hazelnut.
rostrata, Ait. (Beaked Hazelnut.)
Americana, Walt. Meredith, *Rev. J. Blake,* and doubtless within our limits.

**Ostrya,** Micheli. Hop-Hornbeam.
Virginica, Willd. (Lever-wood. Iron-wood.)

**Carpinus,** L. Hornbeam. Iron-wood.
Americana, Michx. (Water Beech.)

### Order 74. MYRICACEÆ. Sweet-Gale Family.

**Myrica,** L. Sweet Gale.
Gale, L. Swamps.

**Comptonia,** Solander. Sweet Fern.
asplenifolia, Ait. Dry uplands.

## Order 75. BETULACEÆ. Birch Family.

**Betula,** Tourn. Birch.
lenta, L. (Black or Cherry Birch.) Not common.
lutea, Michx. f. (Yellow Birch.) Common.
alba, var. populifolia, Spach. (White or Gray Birch.) More common southward.
papyracea, Ait. (Paper or Canoe Birch.) Common.

**Alnus,** Tourn. Alder.
viridis, DC. (Green Alder.) Bank of Conn. river, etc.
incana, Willd. Common.
serrulata, Ait. Claremont, *Dr. Graves.*

## Order 76. SALICACEÆ. Willow Family.

**Salix,** Tourn. Willow.
humilis, Marshall.
discolor, Muhl. (Glaucous Willow.)
sericea, L. (Silky Willow.)
PURPUREA, L. (Purple Willow.)
cordata, Muhl. (Heart-leaved Willow.)
livida, Wahl. var. occidentalis, Gr.
lucida, Muhl. (Shining Willow.)
nigra, Marsh. (Black Willow.)
FRAGILIS, L. (Brittle Willow.)
ALBA, L. (White Willow.)
BABYLONICA, Tourn. (Weeping Willow.)
longifolia, Muhl. Banks of Conn. river at Lebanon; Windsor, Vt.

**Populus,** Tourn. Poplar.
tremuloides, Michx. (American Aspen.)
grandidentata, Michx. (Great-toothed Poplar.)
balsamifera, L. (Balsam Poplar.) Common near streams.
var. candicans, Gray. (Balm of Gilead. Commonly cultivated; seldom spontaneous within this district.

## Subclass II. GYMNOSPERMÆ.

### Order 77. CONIFERÆ. Pine Family.

**Pinus,** Tourn. Pine.
rigida, Miller. (Pitch Pine.)
resinosa, Ait. (Red or Norway Pine.)
Strobus, L. (White Pine.) Very common.

**Abies,** Tourn. Spruce. Fir.
nigra, Poir. (Black Spruce.)
alba, Michx. (White Spruce.) Newport, *Dr. Graves;* Windsor, Vt., *Leland.*
Canadensis, Michx. (Hemlock Spruce.)
balsamea, Marsh. (Balsam Fir.)

**Larix,** Tourn. Larch.
Americana, Michx. (American Larch.)

**Thuja,** Tourn. Arbor Vitæ.
occidentalis, L. Commonly called White Cedar.

**Cupressus,** Tourn. Cypress.
thyoides, L. (White Cedar.) Mt. Ascutney, Vt., *Leland;* very rare so far northward.

**Juniperus,** L. Juniper.
communis, L. (Common Juniper.) Claremont, *Barrows.*
Virginiana, L. (Red Cedar.)

**Taxus,** Tourn. Yew.
baccata, L., var. Canadensis, Gray. Common.

## Class II. MONOCOTYLEDONOUS OR ENDOGENOUS PLANTS.

### Order 78. **ARACEÆ.** Arum Family.

**Arisæma,** Martius.
triphyllum, Torr. (Indian Turnip.) Common.
Dracontium, Schott. (Dragon-Arum.) Charlestown, *Dr. Graves;* rare.

**Calla,** L. Water Arum.
palustris, L. Bogs. Claremont, Newport, etc., *Barrows;* Hartford, Vt.

**Acorus,** L. Sweet Flag.
Calamus, L. Swamps.

### Order 79. **LEMNACEÆ.** Duckweed Family.

**Lemna,** L. Duckweed.
minor, L. Floating in still water; not infrequent.
polyrrhiza, L. Ponds and ditches.

### Order 80. **TYPHACEÆ.** Cat-tail Family.

**Typha,** Tourn.
latifolia, L. (Common Cat-tail.)

**Sparganium,** Tourn. Bur-reed.
simplex, Huds. Borders of ponds and streams.
var. Nuttallii, Englm.
var. androcladum, Engelm. The largest form; common.
var. fluitans, Engelm.
var. angustifolium, Engelm.

### Order 81. **NAIADACEÆ.** Pondweed Family.

**Naias,** L. Naiad.
flexilis, Rosth. Goose Pond in Canaan, etc., *Jesup.*

**Zannichellia,** Micheli.
palustris, L. Ponds. Claremont, *Barrows;* rare.

**Potamogeton,** Tourn. Pondweed.
natans, L. Ponds and streams.
Oakesianus, Robbins. Ponds on Grantham Mt.
Claytonii, Tuck. Common in ponds and streams.
Spirillus, Tuck. Streams and ponds.
hybridus, Michx. Shallow ponds.
rufescens, Schrad. Windsor, Vt.; infrequent.
lonchites, Tuck. Conn. river.
amplifolius, Tuck. Ponds and large rivers.
gramineus, L. Conn. river.
perfoliatus, L. Conn. river.
var. lanceolatus, Robbins. Conn. river.
compressus, L. Randolph, Vt., *J. W. Freley.*
pauciflorus, Pursh. Pools.
pusillus, L., var. vulgaris, Fries. Shallow pools.
Tuckermani, Robbins. Claremont, *Barrows;* scarce.
pectinatus, L. In Conn. river.
Robbinsii, Oakes. In a pool near West Lebanon.

ORDER 82. **ALISMACEÆ.** WATER-PLANTAIN FAMILY.

**Scheuchzeria,** L.
palustris, L. Marshes near ponds, Grantham Mt.; Union Village Vt., etc.

**Alisma,** L. Water-Plantain.
Plantago, L., var. Americana, Gr. Shallow water.

**Sagittaria,** L. Arrow-head.
variabilis, Engelm. In wet places; several varieties.
graminea, Michx. Lebanon, etc.; not rare.

ORDER 83. **HYDROCHARIDACEÆ.** FROG'S-BIT FAMILY.

**Vallisneria,** Micheli. Tape Grass. Eel Grass.
spiralis, L. Hanover, in Conn. river, etc.

ORDER 84. **ORCHIDACEÆ.** ORCHIS FAMILY.

**Orchis,** L.
spectabilis, L. (Showy Orchis.) Rich woods; not rare.

**Habenaria,** Willd. R. Br.
tridentata, Hook.
virescens, Spreng. Claremont, *Barrows.*
viridis, R. Br., var. bracteata, Reich. Rich woods.
hyperborea, R. Br. Cold bogs, also wet woods.

dilatata, Gray. Pomfret, Sharon, Norwich, and Windsor, Vt. Wet grounds.
obtusata, Rich. Killington Peak, Vt., *Morgan.*
Hookeri, Torr. Norwich and Sharon, Vt., *Morgan.* Woods.
orbiculata, Torr. Mountain woods.
blephariglottis, Hook. (White Fringed Orchis.) Grantham Mt., etc.
lacera, R. Br. Moist grounds.
psycodes, Gray. (Purple Fringed Orchis.) Swamps; more common than the next.
fimbriata, R. Br. (Purple Fringed Orchis.) Claremont, *Barrows.*

**Goodyera,** R. Br. Rattlesnake Plantain.
repens, R. Br. In rich hillside woods; not rare.
pubescens, R. Br. Rich woods; less frequent.

**Spiranthes,** Richard. Ladies Tresses.
latifolia, Torr. Moist banks. Windsor, Vt., *Leland;* Union Village, Vt., *Blanchard.*
Romanzoviana, Cham. North Pomfret, Vt., *Morgan;* scarce.
cernua, Richard. Wet Meadows; common.
gracilis, Big. Sandy soil. Norwich, Vt., etc.

**Listera,** R. Brown.
cordata, R. Br. Moosilauke Mt., *Flint.*
convallarioides, Hook. Mountain bogs.

**Arethusa,** Gronov.
bulbosa, L. Near Goose Pond in Canaan, *Barrows;* rare.

**Pogonia,** Juss.
ophioglossoides, Nutt. In bogs; not uncommon.

**Calopogon,** R. Br.
pulchellus, R. Br. Bogs.

**Microstylis,** Nutt.
monophyllos, Lindl. Hanover; Pomfret, Union Village, and Ascutney Mt., Vt.
ophioglossoides, Nutt. Pomfret and Ascutney Mt., Vt.

**Liparis,** Richard.
liliifolia, Richard. Banks of Conn. river at Windsor, Vt., *Leland.*
Loeselii, Richard. Pastures; not uncommon.

**Corallorhiza,** Haller. Coral-root.
innata, R. Br. Damp woods, not rare.

odontorhiza, Nutt. Norwich, Vt.; rare.
multiflora, Nutt. Rich woods.

**Aplectrum,** Nutt. Putty-root.
hyemale, Nutt. Walpole and Claremont, *Barrows;* rare.

**Cypripedium,** L. Lady's Slipper.
arietinum, R. Br. Ascutney Mt., Vt., *Dr. Phelps;* rare.
parviflorum, Salisb. Sometimes with the next.
pubescens, Willd. Hanover; Norwich, Vt.
spectabile, Swartz. Swamps. Hanover, *F. H. Herrick;* Lebanon, *Barrows;* Sharon, Vt., *Dr. Baxter.*
acaule, Ait. Dry or moist woods.

## Order 85. IRIDACEÆ. Iris Family.

**Iris,** L. Blue-Flag.
versicolor, L. Swamps; common.

**Sisyrinchium,** L.
Bermudiana, L. (Blue-eyed Grass.) In meadows.

## Order 86. SMILACEÆ. Smilax Family.

**Smilax,** Tourn.
rotundifolia, L. (Greenbrier.) Thickets.
herbacea, L. (Carrion Flower.) River banks.

## Order 87. LILIACEÆ. Lily Family.

**Trillium,** L. Wake-Robin.
erectum, L. Common.
var. album, Pursh. Hartford, Vt., *C. H. Hazen;* Chittenden, Vt., abundant, *Flint.*
cernuum, L. Claremont, Lebanon; Norwich, Vt., *H. A. Nichols;* not common.
erythrocarpum, Michx. Moist woods; common.

**Medeola,** Gronov. Indian Cucumber-root.
Virginica, L. Rich moist woods.

**Veratrum,** Tourn. Hellebore.
viride, Ait. Low grounds; common.

**Tofieldia,** Hudson.
glutinosa, Willd. Queechy Gulf, Vt., *Leland;* very rare.

**Uvularia,** L. Bellwort.
grandiflora, Smith. Rich woods.
perfoliata, L. Claremont, *Barrows;* scarce.
sessilifolia, L. Common in low woods.

**Streptopus,** Michx. Twist-Foot. Twisted-Stalk.
amplexifolius, DC. Claremont; Groton; Pomfret, Vt.
roseus, Michx. Frequent in damp woods.

**Clintonia,** Raf.
borealis, Raf. Moist woods, common.

**Smilacina,** Desf. False Solomon's Seal.
racemosa, Desf. Moist copses.
stellata, Desf. Banks of Conn. river.
trifolia, Desf. Sphagnum swamps; somewhat rare.
bifolia, Ker. Common.

**Polygonatum,** Tourn. Solomon's Seal.
biflorum, Ell. Wooded banks and hillsides, common.
giganteum, Dietrich. River banks.

**Asparagus,** L.
OFFICINALIS, L. Escaped from gardens.

**Lilium,** L. Lily.
Philadelphicum, L. Woods.
Canadense, L. Moist meadows.

**Erythronium,** L. Adder's Tongue.
Americanum, Smith. Very common.

**Ornithogalum,** Tourn. Star of Bethlehem.
UMBELLATUM. L. Dooryards.

**Allium,** L. Onion.
tricoccum, Ait. Rich woods; frequent.
Schœnoprasum, L. Banks of Conn. river at Windsor, Vt., *Leland.*
Canadense, Kalm. Moist meadows.

**Hemerocallis,** L. Day-lily.
FULVA, L. Roadsides, frequent and well established.

ORDER 88. **JUNCACEÆ.** RUSH FAMILY.

**Luzula,** DC. Wood-rush.
pilosa, Willd. Hanover, *A. C. French;* Canaan, *Barrows.*

parviflora, Desv., var. melanocarpa, Gr. Moosilauke Mt., *Rev. J. Blake.*
campestris, DC. Meadows, common.
spicata, Desv. Moosilauke Mt., *Rev. J. Blake.*

**Juncus,** L. Rush.
effusus, L. Marshes, common.
filiformis, L. Low grounds, not very rare.
trifidus, L. Moosilauke Mt., *Rev. J. Blake.*
marginatus, Rostk. Sands of Conn. river.
bufonius, L. (Toad Rush.) Roadsides.
tenuis, Willd. Very common.
Greenii, O. & T. Haverhill, *Flint.*
pelocarpus, E. Meyer. Shores of Enfield Pond, *Jesup.*
articulatus, L. Wet grounds.
acuminatus, Michx., var. legitimus, Engelm. Wet places.
nodosus, L. Swamps and banks of streams.
Canadensis, J. Gay. Common, a late blooming species.
var. longicaudatus, Eng.
var. coarctatus, Eng.

## Order 89. PONTEDERIACEÆ. Pickerel-weed Family.

**Pontederia,** L.
cordata, L. (Pickerel Weed.) Ponds.

## Order 90. XYRIDACEÆ. Yellow-eyed-grass Family.

**Xyris,** L. Yellow-eyed Grass.
flexuosa, Muhl., var. pusilla, Gray. Sandy margins of ponds, Meriden, etc.

## Order 91. ERIOCAULONACEÆ. Pipewort Family.

**Eriocaulon,** L. Pipewort.
septangulare, With. Sandy borders of ponds.

## Order 92. CYPERACEÆ. Sedge Family.

**Cyperus,** L.
diandrus, Torr. Low grounds.
inflexus, Muhl. Shores of Conn. river.
dentatus, Torr. Margins of ponds.
phymatodes, Muhl. Along rivers.
strigosus, L. Very common.
filiculmis, Vahl. Dry sterile soil.

**Dulichium,** Richard.
spathaceum, Pers. Borders of ponds, common.

**Eleocharis,** R. Br. Spike-Rush.
Robbinsii, Oakes. In ponds, rather rare.
obtusa, Schultes. Wet places.
olivacea, Torr. Mouth of Mascoma river, Lebanon, *Jesup.*
palustris, R. Br. Wet places.
tenuis, Schultes. Wet places, very common.
acicularis, R. Br. Muddy shores.

**Scirpus,** L. Bulrush or Club-Rush.
pungens, Vahl. Borders of ponds.
Torreyi, Olney. Borders of ponds.
validus, Vahl. (Common Bulrush.)
debilis, Pursh. Near ponds, Norwich, Vt. etc.
sylvaticus, L. Along brooks.
atrovirens, Muhl. Wet meadows.
Eriophorum, Michx. Wet meadows; two varieties.

**Eriophorum,** L. Cotton-Grass.
alpinum, L. Cold bogs. Not rare.
vaginatum, L. Peat bogs. Lebanon.
Virginicum, L. Low meadows.
polystachyon, L. Low meadows.
gracile, Koch. Low meadows.

**Rhynchospora,** Vahl. Beak-Rush.
fusca, Roem & Sch. Bogs on Grantham Mt.; Plainfield; rare.
alba, Vahl. Bogs.
glomerata, Vahl. Low grounds.

**Cladium,** P. Browne. Twig-Rush.
mariscoides, Torr. Common in bogs.

**Carex, L.** Sedge.
pauciflora, Lightf. Sphagnum bogs, Plainfield, *Barrows.*
polytrichoides, Muhl. Swamps.
bromoides, Schk. Swamps.
teretiuscula, Good. Norwich, Vt. Swamps.
vulpinoidea, Michx. Low meadows.
stipata, Muhl. Low grounds.
sparganioides, Muhl. Low grounds.
cephalophora, Muhl. Fields.
rosea, Schk. Woods and meadows.
tenella, Schk. Cold swamps.
trisperma, Dew. Cold swamps.

canescens, L. Wet meadows.
var. vitilis, Gray. Mountains and high grounds.
Deweyana, Schw. Woods and clearings.
sterilis, Willd. Low grounds.
stellulata, L., var. scirpoides, Boott. Wet places.
scoparia, Schk. Meadows.
lagopodioides, Schk. Wet grounds.
cristata, Schw. Moist grounds.
var. mirabilis, Boott.
adusta, Boott. In clearings. Claremont, etc., *Jesup.*
straminea, Schk. Several varieties.
vulgaris, Fries. Claremont, *Barrows.*
aquatilis, Wahl. Low grounds, *Barrows.*
torta, Boott. Banks of streams.
aperta, Boott. Wet meadows.
stricta, Lam. Wet meadows; very abundant.
crinita, Lam. Wet places.
gynandra, Schw. Swamps.
limosa, L. Peat bogs.
irrigua, Smith. Norwich, Vt.; bogs.
aurea, Nutt. Moist grassy banks.
granularis, Muhl. Lebanon, *Barrows.*
pallescens, L. Meadows.
conoidea, Schk. Moist meadows.
formosa, Dew. Claremont, *Barrows.*
gracillima, Schw. Wet meadows.
virescens, Muhl. Rocky woods.
plantaginea, L. Rich hillside woods.
platyphylla, Carey. Rich hillside woods.
digitalis, Willd. Hillsides.
laxiflora, Lam. Woods; several varieties.
pedunculata, Muhl. Dry woods.
umbellata, Schk. Rocky hillsides.
Novæ-Angliæ, Schw.
Emmonsii, Dew. Dry hillsides.
Pennsylvanica, Lam. Woods and hills.
varia, Muhl. Woods and hills.
pubescens, Muhl. Lebanon, *Barrows.*
miliacea, Muhl. Borders of streams, *Barrows.*
scabrata, Schw. Swamps.
arctata, Boott. Meadows.
debilis, Muhl. Woods and meadows.
flexilis, Rudge. Pomfret, *Morgan.*
flava, L. Wet meadows.
Œderi, Ehrh. Vermont: banks of White River, *Flint;* Fairlee Lake, *Blanchard;* Pomfret, *Morgan.*
filiformis, L. Peat bogs.

lanuginosa, Michx. Conn. river meadows.
riparia, Curtis. Borders of ponds, etc.
comosa, Boott. Wet places.
Pseudo-Cyperus, L. Goose Pond in Canaan, *Barrows.*
hystricina, Willd. Wet meadows.
tentaculata, Muhl. Meadows.
intumescens, Rudge. Swamps.
lupulina, Muhl. Wet grounds.
folliculata, L. Bogs.
subulata, Muhl. Meriden, *Barrows.*
retrorsa, Schw. Marshes, near streams.
utriculata, Boott. Swamps.
monile, Tuck. Moist grounds.
Tuckermani, Boott. Swamps.
bullata, Schk. Canaan, *Barrows;* rare.
longirostris, Torr. Lebanon, *H. C. Fall.*

ORDER 93. **GRAMINEÆ.** GRASS FAMILY.

**Leersia,** Solander. White-Grass.
Virginica, Willd. Wet woods.
oryzoides, Swartz. (Rice Cut-grass.) Marshes.

**Alopecurus,** L. Foxtail-Grass.
PRATENSIS, L. Claremont, *Barrows.*
GENICULATUS, L. Claremont, *Barrows.*

**Phleum,** L. Cat's-tail Grass.
PRATENSE, L. (Timothy. Herd's-Grass in N. E.)

**Sporobolus,** R. Br. Drop-seed Grass.
serotinus, Gray. Wet places.

**Agrostis,** L. Bent-Grass.
perennans, Tuckerm.
scabra, Willd. (Hair-Grass.)
canina, L.
vulgaris, With. (Red-top. Herd's-Grass of Penn.)
alba, L. (White Bent-Grass.)

**Cinna,** L. Wood Reed-Grass.
arundinacea, L. Moist woods.
var. pendula, Gray. Wet rocks.

**Muhlenbergia,** Schreber. Drop-seed Grass.
sobolifera, Trin. Rocky woods.
glomerata. Trin. Wet banks.
Mexicana, Trin. Common everywhere.
sylvatica, Torr. & Gray. Rocky woods.

**Brachyelytrum,** Beauv.
aristatum, Beauv. Rocky woods.

**Calamagrostis,** Adans. Reed Bent-Grass.
Canadensis, Beauv. Wet grounds.
Nuttalliana, Steud. Windsor, Vt., *Leland.*

**Oryzopsis,** Michx. Mountain Rice.
melanocarpa, Muhl. Rocky woods.
asperifolia. Michx. Hillsides.
Canadensis, Torr. Hills and dry plains.

**Dactylis,** L. Orchard-Grass.
GLOMERATA, L.

**Eatonia,** Raf.
Pennsylvanica, Gray. Moist woods.

**Glyceria,** R. Br., Trin. Manna-Grass.
Canadensis, Trin. Wet places.
elongata, Trin. Wet places.
nervata, Trin. Wet places.
pallida, Trin. Shallow water.
aquatica, Smith. Wet grounds.
fluitans, R. Br. Shallow water.

**Poa,** L. Meadow-Grass. Spear-Grass.
annua, L. Cultivated grounds, everywhere.
compressa, L. (Wire-Grass.) Dry, sterile soil.
cæsia, Smith. Thetford, Vt., *Blanchard.*
serotina, Ehrh. (Fowl Meadow-Grass.) Wet meadows.
pratensis, L. (Common Meadow-Grass.)
trivialis, L. (Roughish Meadow-Grass.)
alsodes, Gray. Hillside woods, *Barrows.*

**Eragrostis,** Beauv.
pectinacea, Gray. Dry, sandy fields.

**Festuca,** L. Fescue-Grass.
tenella, Willd. Sterile soil; not common.
ovina, L. (Sheep's Fescue.)
ELATIOR, L. (Meadow Fescue.)
nutans, Willd.

**Bromus,** L. Brome-Grass.
SECALINUS, L. (Chess or Cheat.) Grain fields.
Kalmii, Gray.
ciliatus, L. Borders of woods; common.

**Triticum,** L. Wheat.
repens, L. (Couch or Witch-Grass.)

**Elymus,** L. Wild Rye.
Virginicus, L. River banks.
Canadensis, L. River banks.
striatus, Willd. Rocky woods.

**Gymnostichum,** Schreb. Bottle-brush Grass.
Hystrix, Schreb. Moist woodlands.

**Danthonia,** DC.
spicata, Beauv. Dry and poor soil.

**Avena,** L. Oats.
striata, Michx. Rocky hillsides.

**Aira,** L. Hair-Grass.
flexuosa, L. Dry places.
cæspitosa, L. Shores of Conn. river.

**Arrhenatherum,** Beauv. Oat-Grass.
AVENACEUM, Beauv. Windsor, Vt., *Leland.*

**Hierochloa,** Gmelin. Holy-Grass.
borealis, Roem. & Schul. Hanover, etc., *Flint.*

**Anthoxanthum,** L.
odoratum, L. (Sweet Vernal-Grass.) Meadows.

**Phalaris,** L. Canary-Grass.
arundinacea, L. (Reed Canary-Grass.) Wet grounds.

**Milium,** L.
effusum, L. (Millet-Grass.) Damp woods.

**Paspalum,** L.
setaceum. L. Sandy fields.

**Panicum,** L. Panic-Grass.
GLABRUM, Gaudin. Gravelly soil.
SANGUINALE, L. (Crab-Grass.)
capillare, Michx. (Old-Witch Grass.)
virgatum, L. River banks, etc.
latifolium, L. Low thickets.
clandestinum, L. Moist thickets.
xanthophysum, Gray. Claremont, *Barrows;* rare.

dichotomum, L. Many varieties, some of which may be good species.
depauperatum, Muhl. Dry woods.
CRUS-GALLI, L. (Barnyard-Grass.)

**Setaria,** Beauv. Bristly Fox-tail Grass.
VERTICILLATA, Beauv. Claremont, *Barrows.*
GLAUCA, Beauv. (Fox-tail.)
VIRIDIS, Beauv. (Green Fox-tail.)
ITALICA, Kunth. (Millet. Hungarian-Grass.) Rarely spontaneous.

**Cenchrus,** L. Bur-Grass.
tribuloides, L. Sandy soil.

**Andropogon,** L. Beard-Grass.
furcatus, Muhl. Dry and sterile soil.
scoparius, Michx. Dry and sterile soil.

**Sorghum,** Pers.
nutans, Gray. Dry soil, with the preceeding.

# SERIES II.

## CRYPTOGAMOUS OR FLOWERLESS PLANTS.

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### Class III. ACROGENS.

#### Order 94. **EQUISETACEÆ.** Horsetail Family.

**Equisetum,** L. Horsetail.
arvense, L. Moist, especially gravelly soil.
sylvaticum, L. Wet shady places.
limosum, L. In shallow water.
hyemale, L. (Scouring-Rush.) Wet, sandy banks.
variegatum, Schl. Sandy banks of rivers. Hanover; Hartford, Pomfret and Union Village, Vt.
scirpoides, Michx. Wooded hillsides; common.

#### Order 95. **FILICES.** Ferns.

**Polypodium,** L. Polypody.
vulgare, L. On rocks in woods; common.

**Pellæa,** Link. Cliff-Brake.
gracilis, Hook. Wet rocks. Norwich, Vt., *Dr. Edward Hyde;* rare.

**Pteris,** L. Brake.
aquilina, L. (Common Brake.) Pastures and woods.

**Adiantum,** L. Maidenhair-Fern.
pedatum, L. Rich, moist woods.

**Camptosorus,** Link. Walking-Leaf.
rhizophyllus, Link. On shaded rocks; very local. Lebanon, *Barrows;* Windsor, Vt., *Leland.*

**Asplenium,** L. Spleenwort.
Trichomanes, L. Shaded rocks.
ebeneum, Aiton. Rocky woods.
angustifolium, Michx. Rich, moist woods. Hanover; Windsor and Pomfret, Vt.
thelypteroides, Michx. Rich woods.
Filix-fœmina, Bernh. (Lady-Fern.)

**Phegopteris,** Fée. Beech-Fern.
polypodioides, Fée. Damp woods.
hexagonoptera, Fée. Norwich, Vt., *F. H. Herrick;* scarce.
Dryopteris, Fée. Rocky woods.

**Aspidium,** Swartz. Shield-Fern.
Thelypteris, Swartz. Marshes.
Noveboracense, Swartz. Wet woods.
spinulosum, Swartz. Damp woods.
var. intermedium, Gray. Common.
var. dilatatum, Gray. Summit of Mt. Ascutney, Vt., *Leland.*
var. Boottii, Gray. Not rare in damp woods.
cristatum, Swartz. Swamps.
var. Clintonianum, D. C. Eaton. Not rare.
Goldianum, Hook. Rich and moist woods.
marginale, Swartz. Rocky hillsides, etc.
acrostichoides, Swartz. Woods; common.
aculeatum, Swartz., var. Braunii, Koch. Pomfret and Killington Peak, Vt., *Morgan.* "The Gulf" in Wethersfield, Vt., *Leland.*

**Struthiopteris,** Willd. Ostrich-Fern.
Germanica, Willd. Rich alluvial soil.

**Onoclea,** L. Sensitive-Fern.
sensibilis, L. Swamps.

**Cystopteris,** Bernhardi. Bladder-Fern.
fragilis, Bernh. Shaded ravines.
bulbifera, Bernh. Moist cliffs and rich woods.

**Woodsia,** R. Brown.
Ilvensis, R. Br. On rocks.
obtusa, Torrey. Rocky banks.

**Dicksonia,** L'Her.
punctilobula, Kunze. Hillside pastures, common.

**Osmunda,** L. Flowering-Fern.
regalis, L. (Royal-Fern.) Wet woods.
Claytoniana, L. Wet woods.
cinnamomea, L. (Cinnamon-Fern.) Wet woods.

**Botrychium,** Swartz. Grape-Fern.
simplex, Hitch. Hillside pastures; very rare.
matricariæfolium, Al. Br. Not uncommon.
ternatum, Swartz., var. lunarioides, Willd. Rich woods and pastures.
var. obliquum, Milde. The common form.
var. dissectum, Milde. Not rare.
Virginianum, Swartz. Rich woods; common.

**Ophioglossum,** L. Adder's-Tongue.
vulgatum, L. Bogs and meadows; not uncommon.

ORDER 96. **LYCOPODIACEÆ.** CLUB-MOSS FAMILY.

**Lycopodium,** L., Spring. Club-Moss.
lucidulum, Michx. Damp woods; common.
inundatum, L. Sandy swamps, Grantham Mt., etc.; scarce.
annotinum, L. Woods.
dendroideum, Michx. (Tree Club-Moss. Ground-Pine.)
clavatum, L. (Common Club-Moss.)
complanatum, L. (Creeping Ground-Pine.)
var. sabinæfolium, Spg. Common.

**Selaginella,** Beauv. Spring.
rupestris, Spring. Dry rocks.
apus, Spring. Wet places; about springs.

**Isoetes,** L. Quillwort.
echinospora, Durieu., var. Braunii, Engelm. Ponds; also shallow margins of the Conn. river, and its tributaries.
riparia, Engelm. Ponds, commonly submerged.

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## CORRECTIONS.

Page 11, line 15, read Canadensis.
Page 12, line 26, read Hartland, Vt.
Page 14, line 6, read **UMBELLIFERÆ.**.
Page 15, line 5, read MACULATUM.
Page 17, line 22, read multiflorus.
Page 18, line 11, read Mt. Ascutney, Vt.
Page 21, line 22, read Sphagnum.
Page 26, line 15, read **Hydrophyllum,** L.
Page 29, line 15, read var. ANTHELMINTICUM.
Page 31, line 9, read CROWBERRY FAMILY.
Page 32, line 34, read Gale.

# LIST OF ADDITIONAL PLANTS

*That may be expected within the limits of the preceding Flora.*

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Information is desired by the Editor, on the following topics, for use in any future edition of this Catalogue:

1. Are any of the plants mentioned below found within *thirty* miles of Hanover?

2. If not within these limits, what is the nearest known station?

3. What *alpine* or *sub-alpine* plants are found on any of the mountains of the region referred to? Killington Peak, Vt., Moosilauke and Kearsarge may be included.

4. What stations are known for any of the rarer plants of the region?

Botanists will confer a favor by sending specimens when practicable, with memoranda of habitat, date, etc.

Thalictrum purpurascens.
Nymphæa tuberosa.
Nasturtium officinale.
Polanisia graveolens.
Viola lanceolata.
" primulæfolia.
" cucullata, var. palmata.
Lechea thymifolia.
Elatine Americana.
Stellaria uliginosa.
Sagina procumbens.
" apetala.
Paronychia argyrocoma.
Crotalaria sagittalis.
Vitis cordifolia.
Tephrosia Virginiana.
Astragalus Canadensis.
Hedysarum boreale.
Desmodium canescens.
" ciliare.
" cuspidatum.
Baptisia tinctoria.
Cassia nictitans.
Poterium Canadense.
Potentilla Pennsylvanica.
Myriophyllum verticillatum
Nesæa verticillata.
Conioselinum Canadense.
Zizia integerrima.

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Galium pilosum.
" boreale.
Aster carneus.
" Novæ-Angliæ.
Solidago neglecta.
" odora.
" patula.
" speciosa.
" ulmifolia.
Artemisia Canadensis.

Vaccinium cæspitosum.
" stamineum.
Arctostaphylos Uva-ursi.
Rhododendron maximum.
Chimaphila maculata.
Pterospora Andromedea.
Ilex lævigata.
Lysimachia lanceolata.
Anagallis arvensis.
Utricularia clandestina.
" resupinata.
Conopholis Americana.
Gratiola Virginíana.
Castilleia coccinea.
Schwalbea Americana.
Euphrasia officinalis.
Pycnanthemum muticum.
Collinsonia Canadensis.
Lophanthus nepetoides.
" scrophulariæfolius.
Lycopsis arvensis.
Halenia deflexa.
Bartonia tenella.
Asclepias verticillata.
Fraxinus viridis.

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Chenopodium glaucum.
Polygonum articulatum.
" incarnatum.
" tenue.
" Virginianum.
Rumex Patientia.
" verticillatus.
Lindera Benzoin.
Comandra umbellata.
Quercus coccinea.
" bicolor.
" Prinus.
" macrocarpa.
Salix petiolaris.
" tristis.
" candida.
" myrtilloides.
Populus monilifera.
Symplocarpus fœtidus.
Peltandra Virginica.
Anacharis Canadensis.
Potamogeton lucens.
" Vaseyi.
" obtusifolius.
" prælongus.
Habenaria rotundifolia.
Calypso borealis.
Pogonia pendula.
" verticillata.
Hypoxys erecta.
Trillium grandiflorum.
Uvularia perfoliata.
Xyris flexuosa.
Juncus stygius.
" militaris.
Cyperus Michauxianus.
Scirpus planifolius.
" polyphyllus.
" cæspitosus.
" fluviatilis.
Fimbristylis autumnalis.
" capillaris.
Scleria triglomerata.
Carex scirpoidea.
" capitata
" retroflexa.
" tenuiflora.
" rigida.
" grisea.
" retrocurva.
" triceps.
" Houghtonii.
" subulata.
Zizania aquatica.
Alopecurus aristulatus.
Phleum alpinum.
Vilfa vaginæflora.
Agrostis canina.
Muhlenbergia Willdenovii.
" capillaris.
Aristida dichotoma.
Spartina cynosuroides.
Calamagrostis Langsdorffii.
" Pickeringii.
Glyceria acutiflora.

Eragrostis reptans.
" capillaris.
Elymus mollis.
Phragmites communis.
Triticum violaceum.
" caninum.
Trisetum subspicatum, var. molle.
Aira atropurpurea.
Hierochloa alpina.
Panicum agrostoides.
" filiforme.

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Pellæa atropurpurea.
Woodwardia Virginica.
" angustifolia.
Asplenium Ruta-muraria.
Botrychium lanceolatum.
Isoetes lacustris.
" Engelmanni.

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More complete information is wanted respecting the following plants included in the Catalogue, but about which little is known in this district:

Clematis verticillaris.
Ranunculus divaricatus.
" aquatilis.
" multifidus.
" sceleratus.
Cimicifuga racemosa.
Menispermum Canadense.
Podophyllum peltatum.
Dentaria laciniata.
Brassica Sinapistrum.
Stellaria longipes.
Cerastium arvense.
Oxalis violacea.
Rhus copallina.
" venenata.
Vitis æstivalis.
" Labrusca.
Acer saccharinum, var. nigrum.
Potentilla tridentata.
Cornus paniculata.
Lonicera cærulea.
Viburnum pauciflorum.
Aster dumosus.
" multiflorus.
Helianthus strumosus.
Bidens Beckii.
Vaccinium uliginosum.
" vacillans.
" Vitis Idæa.
Rhodora Canadensis.
Conopholis Americana.
Asclepias purpurascens.
Fraxinus pubescens.
Sassafras officinale.
Morus rubra.
Ulmus racemosa.
Urtica urens.
Abies alba.
Cupressus thyoides.
Arisæma Dracontium.
Arethusa bulbosa.
Aplectrum hyemale.
Cypripedium arietinum.
Tofieldia glutinosa.
Streptopus amplexifolius.
Phegopteris hexagonoptera.

# CATALOGUE OF VERTEBRATES.

## CLASS I. MAMMALIA. THE MAMMALS.

### ORDER I. CARNIVORA. THE FLESH-EATERS.

#### FAMILY 1. **FELIDÆ.** THE CATS.

**Felis,** Linnæus. Cats.
concolor, L. American Panther. Cougar. Very rare.

**Lynx,** Rafinesque. Wild Cats.
Canadensis, Raf. Canada Lynx. Rare.
rufus, Raf. American Wild Cat. Rare.

#### FAMILY 2. **CANIDÆ.** THE DOGS.

**Vulpes,** Brisson. Foxes.
vulgaris, Flem. Includes:—Red Fox, common; Cross Fox, rare.

#### FAMILY 3. **MUSTELIDÆ.** THE WEASELS.

**Mustela,** Linnæus. Martens.
Americana, Turton. Sable. Pine Marten. Not common.
Pennantii, Erxleben. Fisher. Black Cat. Rare.

**Putorius,** Cuvier. Weasels.
vulgaris, Cuv. Least Weasel. Rare.
ermineus, Cuv. Common Weasel. Ermine. Common.
vison, Gapper. Common Mink. Common.

**Mephitis,** Cuvier. Skunks.
mephitica, Baird. Common Skunk. Too common.

**Lutra,** Linnæus. Otters.
Canadensis, Sabine. American Otter. Possible.

### Family 4. **URSIDÆ.** The Bears.

**Ursus,** Linnæus. Bears.
Americanus, Pallas. Black Bear. Very rare.

### Family 5. **PROCYONIDÆ.** The Raccoons.

**Procyon,** Storr. Raccoons.
lotor, Storr. Rommon Raccoon. "Coon." Rather common.

## Order II. UNGULATA. The Hoofed Mammals.

### Family 6. **CERVIDÆ.** The Deer.

**Cariacus,** Gray. Red Deer.
Virginianus, Gray. Virginia Deer. Red Deer. Very rare.

## Order III. CHIROPTERA. The Bats.

### Family 7. **VESPERTILIONIDÆ.** The Ordinary Bats.

**Vespertilio,** Linnæus. Typical Bats.
subulatus, Say. Little Brown Bat. Very Common.
noctivagans, LeC. Silver Black Bat. Probable.
Georgianus, F. Cuvier. Georgia Bat. Possible.

**Atalapha,** Rafinesque. Red Bats.
Noveboracensis. Coues. Red Bat. Common.

## Order IV. INSECTIVORA. The Insect Eaters.

### Family 8. **TALPIDÆ.** The Moles.

**Scalops,** Cuvier. Shrew Moles.
aquaticus, Fischer. Common Mole. Very common.

**Scapanus,** Pomel. Hairy-Tailed Moles.
Breweri, Pomel. Hairy-Tailed Mole. Probable.

**Condylura,** Illiger. Star-nosed Moles.
cristata, Desmarest. Star-nosed Mole. Common.

### Family 9. **SORICIDÆ.** The Shrews.

**Sorex,** Linnæus. Shrews.
platyrhinus, Wagner. Common Shrew. Probable.
Cooperi, Bach. Western Shrew. Probable.

**Neosorex,** Baird. Water Shrews.
palustris, Coues. Water Shrew. Probable.

**Blarina,** Gray. Short-Tailed Shrews.
brevicauda, Baird. Mole Shrew. Common.
angusticeps, Baird. Probable.

## Order V. RODENTIA. The Rodents.

### Family 10. SCIURIDÆ. The Squirrels.

**Sciuropterus,** F. Cuvier. Flying Squirrel.
volucella, Geoff. Common Flying Squirrels. Very common.

**Sciurus,** Linnæus. Squirrels.
Carolinensis, Auct. Includes:—Gray Squirrel, common; Black Squirrel, very rare.
Hudsonius, Pallas. Red Squirrel. Chickaree. Very common.

**Tamias,** Illiger. Ground Squirrels.
striatus, Baird. Chipmunk. Ground Squirrel. Abundant.

**Arctomys,** Schreber. Marmots.
monax, Gmel. Woodchuck. Ground Hog. Very common.

### Family 11. ZAPODIDÆ. The Jumping Mice.

**Zapus,** Coues. Jumping Mice.
Hudsonius, Coues. Jumping Mouse. Not common.

### Family 12. MURIDÆ. The Mice.

**Mus,** Linnæus. Old World Rats and Mice.
decumanus, Pallas. Brown or Norway Rat. Abundant.
rattus, L. Black Rat. Probable.
musculus, L. Common House Mouse. Too abundant.

**Hesperomys,** Waterhouse. White-footed Mice.
leucopus, LeC. Deer Mouse. White-footed Mouse. Common.

**Evotomys,** Coues. Long-eared Mice.
rutilus, var. Gapperi, Coues. Long-eared Mouse. Probable.

**Arvicola,** Lacepede. Field Mice.
riparius, Ord. Meadow Mouse. Abundant.
pinetorum, LeC. Pine Mouse. Probable.

**Fiber,** Cuvier. Muskrats.
zibethicus, Cuv. Muskrat. Musquash. Very common.

### Family 13. SPALACOPODIDÆ. The Porcupines.

**Erethizon,** F. Cuvier. American Porcupines.
dorsatus, F. Cuv. White-haired Porcupine. Hedgehog. Not rare.

### Family 14. LEPORIDÆ. The Hares.

**Lepus,** Linnæus. Hares.
Americanus, Erx. White Rabbit. Northern Hare. Common.
sylvaticus, Bachman. Gray Rabbit. Possible.

# CLASS II. AVES. THE BIRDS.

## ORDER I. PASSERES. THE PASSERINE BIRDS.

### FAMILY 15. TURDIDÆ. THE THRUSHES.

**Hylocichla,** Baird. Wood Thrushes.
mustelina, Bd. Wood Thrush. Summer resident.
Pallasi, Bd. Hermit Thrush. Common summer resident.
Swainsoni, Bd. Olive-backed Thrush. Rare summer resident.
fuscescens, Bd. Tawny Thrush. Wilson's Thrush. Not common summer resident.

**Turdus,** Linnæus. Thrushes.
migratorius, L. Robin. Abundant summer resident.

**Harporhynchus,** Cabanis. Mocking Thrushes.
rufus, Cab. Brown Thrush. Thrasher. Very com. sum. resident.

**Galeoscoptes,** Cabanis. Cat Birds.
Carolinensis, Cab. Cat Bird. Abundant summer resident.

### FAMILY 16. SAXICOLIDÆ. THE STONE CHATS.

**Sialia,** Swainson. Blue Birds.
sialis, Hald. Common Blue Bird. Abundant summer resident.

### FAMILY 17. SYLVIIDÆ. THE SYLVIAS.

**Regulus,** Cuvier. Kinglets.
satrapa, Licht. Golden-Crowned Kinglet. [illegible]ther com. winter res.
calendula, Licht. Ruby-Crowned Kinglet. Common migrant.

**Polioptila,** Sclater. Gnat Catchers.
cærulea, Scl. Blue-Gray Gnat Catcher. Possible summer resident.

### FAMILY 18. PARIDÆ. THE TITMICE.

**Parus,** Linnæus. Chickadees.
atricapillus, L. Black-Capped Titmouse. Chickadee. Abundant res.

### Family 19. SITTIDÆ. The Nuthatches.

**Sitta,** Linnæus. Nuthatches.
Carolinensis, Gm. White-Bellied Nuthatch. "Sap Sucker." Abundant resident.
Canadensis, L. Red-Bellied Nuthatch. Common winter resident.

### Family 20. CERTHIIDÆ. The Creepers.

**Certhia,** Linnæus. Brown Creepers.
familiaris, Linn. Brown Creeper. Not rare resident.

### Family 21. TROGLODYTIDÆ. The Wrens.

**Troglodytes,** Vieillot. Wrens.
aedon, Vieill. House Wren. Common summer resident.

**Anorthura,** Rennie. Winter Wrens.
troglodytes, Coues. Winter Wren. Rare migrant.

**Cistothorus,** Cabanis. Marsh Wrens.
stellaris, Cab. Short-Billed Marsh Wren. Not common summer res.
palustris, Bd. Long-Billed Marsh Wren. Probable summer resident.

### Family 22. MOTACILLIDÆ. The Wagtails.

**Anthus,** Bechstein. Titlarks.
Ludovicianus, Licht. Brown Lark. Titlark. Possible migrant.

### Family 23. SYLVICOLIDÆ. The Warblers.

**Mniotilta,** Vieillot. Creeping Warblers.
varia, Vieill. Black and White Creeper. Common summer resident.

**Chloris,** Boie. Blue Yellow-Backed Warblers.
Americana, Jor. Blue Yellow-Backed Warbler. Summer resident.

**Helminthophaga,** Cabanis. Worm-Eating Warblers.
chrysoptera, Bd. Blue Golden-Winged Warbler. Summer resident.
pinus, Bd. Blue-Winged Yellow Warbler. Possible Summer resident.
ruficapilla, Bd. Nashville Warbler. Summer resident.
peregrina, Cab. Tennessee Warbler. Rare migrant.

**Dendrœca,** Gray. Wood Warblers.
æstiva, Bd. Yellow Warbler. Golden W. Rather com. sum. res.
cœrulescens, Bd. Black-Throated Blue W. Possible sum. resident.

coronata, Gray. Yellow-Rumped W. Myrtle W. Abundant migrant.
maculosa, Bd. Black and Yellow W. Magnolia W. Not rare summer resident.
cœrulea, Bd. Cœrulean Warbler. Possible summer resident.
Pennsylvanica, Bd. Chestnut-Sided Warbler. Common sum. res.
castanea, Bd. Bay-Breasted Warbler. Autumn W. Rare sum. res.
striata, Bd. Black-Poll Warbler. Abundant migrant.
Blackburniæ, Bd. Orange-Throated W. Blackburnian W. Rare summer resident.
discolor, Bd. Prairie Warbler. Probable summer resident.
virens, Bd. Black-Throated Green Warbler. Com. summer resident.
pinus. Bd. Pine-Creeping Warbler. Not rare summer resident.
palmarum, Bd. Yellow Red-Poll Warbler. Common migrant.

**Siurus,** Swainson. Water Thrushes.
auricapillus, Sw. Golden-Crowned T. Oven-Bird. Not rare sum. res.
nœvius, Coues. Water Wagtail. Water Thrush. Prob. sum. res.
motacilla, Bon. Large-Billed Water Thrush. Poss. summer resident.

**Oporornis,** Baird. Nimble Warblers.
agilis, Bd. Connecticut Warbler. Possible migrant.

**Geothlypis,** Cabanis. Ground Warblers.
trichas, Cab. Maryland Yellow Throat. Very com. sum. resident.
Philadelphia, Bd. Mourning Warbler. Possible summer resident.

**Wilsonia,** Nuttall. Fly-Catching Warblers.
pusilla, Bon. Black Capped Fly-Catching W. Rather com. migrant.
Canadensis, Aud. Canada Fly-Catching W. Not com. sum. res.

**Setophaga,** Swainson. American Redstarts.
ruticilla, Sw. Redstart. Common summer resident.

### Family 24. TANAGRIDÆ. The Tanagers.

**Pyranga,** Vieillot. Fire Tanagers.
rubra, Vieill. Scarlet Tanager. Rather common summer resident.
æstiva, Vieill. Summer Red Bird. Very rare summer visitor.

### Family 25. HIRUNDINIDÆ. The Swallows.

**Hirundo,** Linnæus. Swallows.
erythrogastra, Bodd. Barn Swallow. Abundant summer resident.

**Tachycineta,** Cabanis. White-Bellied Swallows.
bicolor, Coues. White-Bellied Swallow. Common summer resident.

**Pethrocelidon,** Cabanis. Cliff Swallows.
lunifrons, Cab. Cliff Swallow. Eave Swallow. Abundant sum. res.

**Cotyle,** Boie. Bank Swallows.
riparia, Boie. Bank Swallow. Sand Martin. Abundant sum. res.

**Progne,** Boie. Martins.
subis, Bd. Purple Martin. Not common summer resident.

### Family 26. AMPELIDÆ. The Chatterers.

**Ampelis,** Linnæus. Wax Wings.
garrulus, L. Bohemian Wax Wing. Northern Wax Wing. Possible winter resident.
cedrorum, Bd. Cedar Bird. Cherry Bird. Abundant sum. resident.

### Family 27. VIREONIDÆ. The Vireos.

**Vireosylvia,** Bonaparte. Long-Winged Vireos.
olivacea, Bon. Red-Eyed Vireo. Greenlet. Abundant sum. res.
Philadelphica, Cassin. Philadelphia Greenlet. Prob. sum. visitor.
gilva, Cass. Warbling Vireo. Common summer resident.
flavifrons, Baird. Yellow-Throated Vireo. Not rare sum. resident.
solitaria, Bd. Blue-Headed V. Solitary Greenlet. Not com. sum. res.

**Vireo,** Vieillot. Short-Winged Vireos.
Noveboracensis, Bonap. White-Eyed Vireo. Common sum. res.

### Family 28. LANIIDÆ. The Shrikes.

**Lanius,** Linnæus. Shrikes.
borealis, Vieill. Grt. North. S. Butcherbird. Not com. winter res.

### Family 29. FRINGILLIDÆ. The Finches.

**Pinicola,** Vieillot. Pine Grosbeaks.
enucleator, Vieill. Pine Grosbeak. Irregular winter resident.

**Carpodacus,** Kaup. Purple Finches.
purpureus, Gray. Purple Finch. Abundant summer resident.

**Loxia,** Linnæus. Crossbills.
leucoptera, Gmel. White-Winged Crossbill. Rare winter visitor.
curvirostra, L. Red Crossbill. Irregular winter resident.

**Ægiothus,** Cabanis. Linnets.
linarius, Cab. Red Poll Linnet. Lesser Red Poll. Winter visitor.

**Chrysomitris,** Boie. Gold-finches.
pinus, Bon. Pine Linnet. Pine Finch. Irregular winter visitor and occasional resident.
tristis, Bon. Yellow Bird. Thistle Bird. Am. Goldfinch. Abundant resident.

**Plectrophanes,** Meyer. Longspurs.
nivalis, Meyer. Snow Bunting. Abundant winter resident.
Lapponicus, Selby. Lapland Longspur. Rare winter visitor.

**Passer,** Brisson. House Sparrows.
domesticus, L. English Sparrow. Too abundant resident.

**Passerculus,** Bonaparte. Savanna Sparrows.
Savanna, Bon. Savanna Sparrow. Not common summer resident.

**Poœcetes,** Baird. Grass Sparrows.
gramineus, Baird. Grass Sparrow. Ground Bird. Abund. sum. res.

**Ammodromus,** Swainson. Shore Sparrows.
passerinus, Baird. Yellow-Winged Sparrow. Summer resident.
Henslowi, Baird. Henslow's Sparrow. Possible summer resident.

**Chondestes,** Swainson. Lark Sparrows.
grammica, Bon. Lark Finch. Possible migrant.

**Zonotrichia,** Swainson. White-Crowned Sparrows.
leucophrys, Sw. White-Crowned Sparrow. Not rare migrant.
albicollis, Bon. White-Throated Sparrow. Not com. sum. resident.

**Spizella,** Bonaparte. Chipping Sparrows.
monticola, Baird. Tree Sparrow. Winter resident.
pusilla, Bon. Field Sparrow. Very common summer resident.
socialis, Bon. Chippy. Chipping Sparrow. Abundant sum. res.

**Melospiza,** Baird. Song Sparrows.
melodia, Baird. Song Sparrow. Abundant summer resident.
palustris, Baird. Swamp Sparrow. Common summer resident.
Lincolni, Baird. Lincoln's Finch. Possible visitor.

**Junco,** Wagler. Snow Birds.
hyemalis, Scl. Snow Bird. Com. winter resident, and rare resident.

**Passerella,** Swainson. Fox Sparrows.
Iliaca, Sw. Fox Sparrow. Common migrant.

**Euspiza,** Bonaparte. Black-Throated Buntings.
Americana, Bon. Black-Throated Bunting. Possible sum. visitor.

**Goniaphea,** Bowdich. Black-Headed Grosbeaks.
Ludoviciana, Bowd. Rose-Breasted Grosbeak. Not rare sum. res.

**Guiraca,** Swainson. Blue Grosbeaks.
cœrulea, Sw. Blue Grosbeak. Possible summer visitor.

**Cyanospiza,** Baird. Indigo Birds.
cyanea, Baird. Indigo Bird. Common summer resident.

**Pipilo,** Vieillot. Towhee Buntings.
erythropthalmus, Vieill. Chewink. Ground Robin. Not rare summer resident.

## Family 30. ICTERIDÆ. The Orioles.

**Dolichonyx,** Swainson. Bobolinks.
oryzivorus, Sw. Bobolink. Reed Bird. Abundant sum. resident.

**Molothrus,** Swainson. Cow Birds.
ater, Gray. Cow Bird. Cow Bunting. Common summer resident.

**Agelæus,** Vieillot. Red-Wing Black Birds.
phœniceus, V. Red-Winged Black Bird. Abundant sum. resident.

**Sturnella,** Vieillot. Meadow Larks.
magna, Sw. Meadow Lark. Probable summer resident.

**Icterus,** Brisson. American Orioles.
Baltimore, Daud. Balt. Oriole. Golden Robin. Fire Bird. Com. sum. resident.
spurius, Bon. Orchard Oriole. Possible summer resident.

**Scolecophagus,** Swainson. Rusty Black Birds.
ferrugineus, Sw. Rusty Grackle. Rusty Black Bird. Com. migrant.

**Quiscalus,** Vieillot. Crow Black Birds.
purpureus, Lich. Crow Black Bird. Purple Grackle. Not common summer resident.

### Family 31. CORVIDÆ. The Crows and Jays.

**Corvus,** Linnæus. Ravens.
Americanus, Aud. Crow. Abundant resident.

**Cyanurus,** Swainson. Blue Jays.
cristatus, Sw. Blue Jay. Very common resident.

### Family 32. TYRANNIDÆ. The Flycatchers.

**Tyrannus,** Cuvier. King Birds.
Carolinensis, Baird. King Bird. Bee Martin. Common sum. res.

**Myiarchus,** Cabanis. Crested Flycatchers.
crinitus, Cab. Great-Crested Flycatcher. Rather com. sum. res.

**Sayornis,** Bonaparte. Pewees.
fuscus, Baird. Pewee. Phœbe. Abundant summer resident.

**Contopus,** Cabanis. Wood Pewees.
borealis, Bd. Olive-Sided Flycatcher. Not com. summer resident.
virens, Cab. Wood Pewee. Common summer resident.

**Empidonax,** Cabanis. Least Flycatchers.
Acadicus, Bd. Acadian F. Small Green-Crested F. Summer res.
Traillii, Baird. Traill's Flycatcher. Common summer resident.
minimus, Baird. Least Flycatcher. Probable summer resident.
flaviventris, Baird. Yellow-Bellied Flycatcher. Prob. sum. resident.

## Order II. PICARIÆ. The Picarian Birds.

### Family 33. CAPRIMULGIDÆ. The Goatsuckers.

**Antrostomus,** Gould. Whippoorwills.
vociferus, Bon. Whippoorwill. Common summer resident.

**Chordeiles,** Swainson. Night Hawks.
Virginianus, Bon. Night Hawk. Common summer resident.

### Family 34. CYPSELIDÆ. The Swifts.

**Chætura,** Stephens. Chimney Swallows.
pelagica, Bd. Chimney Swift. Chimney S. Very com. sum. resident.

### Family 35. TROCHILIDÆ. The Humming Birds.

**Trochilus,** Linnæus. Ruby-Throated Humming Birds.
colubris, L. Ruby-Throated Humming Bird. Com. sum. resident.

### Family 36. **ALCEDINIDÆ.** The Kingfishers.

**Ceryle,** Boie. Kingfishers.
alcyon, Boie. Belted Kingfisher. Common summer resident.

### Family 37. **CUCULIDÆ.** The Cuckoos.

**Coccygus,** Vieillot. American Cuckoos.
Americanus, Bon. Yellow-Billed Cuckoo. Not com. sum. resident.
erythrophthalmus, Bd. Black-Billed Cuckoo. Com. sum. resident.

### Family 38. **PICIDÆ.** The Woodpeckers.

**Hylotomus,** Baird. Black Woodcocks.
pileatus, Bd. Pileated W. Big Black W. Not rare resident.

**Picus,** Linnæus. Spotted Woodpeckers.
villosus, L. Hairy Woodpecker. Big Sap Sucker. Common res.
pubescens, L. Downy Woodpecker. Little Sap Sucker. Resident.

**Picoides,** Lacepede. Three-Toed Woodpeckers.
arcticus, Gray. Black-Backed Woodpecker. Not com. winter res.
Americanus, Brehm. Banded Three-Toed Woodpecker. Prob. w. res.

**Sphyrapicus,** Baird. Sap-Sucking Woodpeckers.
varius, Bd. Yellow-Bellied Woodpecker. Summer resident.

**Centurus,** Swainson. Red-Bellied Woodpeckers.
Carolinus, Boie. Red-Bellied Woodpecker. Poss. summer resident.

**Melanerpes,** Swainson. Red-Headed Woodpeckers.
erythrocephalus, Sw. Red-Headed W. Rather rare sum. resident.

**Colaptes,** Swainson. Flickers.
auratus, Sw. Golden-Winged Woodpecker. Wood-wall. Flicker. Yellow Hammer. Common summer resident.

## Order III. RAPTORES. The Birds of Prey.

### Family 39. **STRIGIDÆ.** The Owls.

**Asio,** Brisson. Eared Owls.
otus, Less. Long-Eared Owl. Probable resident.
brachyotus, Macgil. Short-Eared Owl. Probable resident.

**Syrnium,** Savigny. Barred Owls.
nebulosum, Boie. Barred Owl. Common resident.
cinereum, Aud. Great Gray Owl. Probable winter visitor.

**Nyctale,** Brehm. Sparrow Owls.
Acadica, Bon. Saw-Whet Owl. Acadian Owl. Not rare resident.

**Scops,** Savigny. Screech Owls.
asio, Bon. Screech Owl. Red Owl. Common resident.

**Bubo,** Dumeril. Great Horned Owls.
Virginianus, Bon. Great Horned Owl. Not rare resident.

**Nyctea,** Stephens. Great Snow Owls.
Scandiaca, Newt. Snowy Owl. Very rare winter visitor.

**Surnia,** Dumeril. Hawk Owls.
ulula, Bon., var. Hudsonica, Ridg. Hawk Owl. Prob. winter res.

## Family 40. FALCONIDÆ. The Falcons.

**Falco,** Linnæus. Falcons.
communis, Gm. Peregrine Falcon. Duck Hawk. Not com. resident.
sacer, Forst. Gyrfalcon. Jerfalcon. Probable winter visitor.
columbarius, L. Pigeon Hawk. Common resident.
sparverius, L. Sparrow Hawk. Resident.

**Pandion,** Savigny. Ospreys.
haliaetus, Savigny. Osprey. Fish Hawk. Summer resident.

**Circus,** Lacepede. Marsh Harriers.
cyaneus, L. Marsh Hawk. Marsh Harrier. Com. summer resident.

**Astur,** Lacepede. Goshawks.
palumbarius, var. atricapillus, Coues. Goshawk. Blue H. Resident.

**Accipiter,** Brisson. Hawks.
fuscus, Bon. Sharp-Shinned H. "Pigeon Hawk." Com. sum. res.
Cooperi, Bon. Cooper's Hawk. Chicken Hawk. Com. sum. res.

**Buteo,** Cuvier. Buzzards.
borealis, Vieill. Hen Hawk. Red-Tailed Hawk. Common resident.
lineatus, Jard. Red-Shouldered Hawk. Resident.
Pennsylvanicus, Bon. Broad-Winged Hawk. Probable resident.

**Archibuteo,** Brehm. Squirrel Hawks.
lagopus, Brunn. Rough-Legged Hawk. Black Hawk. Probable winter resident.

**Haliaetus,** Savigny. Bald Eagles.
leucocephalus, Savigny. Bald Eagle. Rare summer visitor.

## Order IV. COLUMBÆ. The Doves.

### Family 41. COLUMBIDÆ. The Doves.

**Ectopistes,** Swainson. Passenger Pigeons.
migratorius, Sw. Wild Pigeon. Not common summer resident.

**Zenædura,** Bonaparte. Mourning Doves.
Carolinensis, Bon. Mourning D. Turtle D. Very rare sum. visitor.

## Order V. GALLINÆ. The Gallinaceous Birds.

### Family 42. TETRAONIDÆ. The Grouse.

**Canace,** Reichenback. American Grouse.
Canadensis, Reich. Spruce Partridge. Canada G. Very rare res.

**Bonasa,** Stephens. Ruffed Grouse.
umbellus, Stephens. Partridge. Common resident.

### Family 43. PERDICIDÆ. The Partridges.

**Ortyx,** Stephens. Bob-Whites.
Virginianus, Bon. Quail. Rare resident.

## Order VI. LIMICOLÆ. The Shore Birds.

### Family 44. SCOLOPACIDÆ. The Snipe.

**Philohela,** Gray. American Woodcocks.
minor, Gray. American Woodcock. Not rare summer resident.

**Tringa,** Linnæus. Sandpipers.
maritima, Brunnich. Purple Sandpiper. Not common migrant.

**Totanus,** Bechstein. Tattlers.
flavipes, Gm. Lesser Tattler. Yellow Legs. Not com. migrant.

**Tringoides,** Bonaparte. Spotted Sandpipers.
macularius, Gray. Tip-Up. Teeter-Tail. Very com. sum. resident.

## Order VII. HERODIONES. The Herons and Storks.

### Family 45. ARDEIDÆ. The Herons.

**Ardea,** Linnæus. Herons.
herodias, L. Great Blue Heron. Crane. Common sum. resident.

**Butorides,** Bonaparte. Green Herons.
virescens, Bon. Green Heron. Common summer resident.

**Nyctiardea,** Swainson. Night Herons.
grisea, Steph. Squawk. Night Heron. Not com. summer resident.

**Botaurus,** Stephens. Bitterns.
minor, Boie. Indian Hen. Stake Driver. Bittern. Com. sum. res.

## Order VIII. ALECTORIDES. The Cranes and Rails.

### Family 46. RALLIDÆ. The Rails.

**Rallus,** Linnæus. Rails.
Virginianus, L. Virginia Rail. Summer resident.

**Porzana,** Vieillot. Little Rails.
Carolina, V. Carolina Rail. Sora. "Ortolan." Possible sum. res.

**Fulica,** Linnæus. Coots.
Americana, Gm. Coot. Mud Hen. Probable summer resident.

## Order IX. LAMELLIROSTRES. The Anserine Birds.

### Family 47. ANATIDÆ. The Ducks.

**Branta,** Scopoli. Brant Geese.
Canadensis. Wild Goose. Canada Goose. Common migrant.

**Anas,** Linnæus. Ducks.
obscura, Gm. Black Duck. Common migrant.

**Aix,** Swainson. Wood Ducks.
sponsa, Boie. Wood Duck. Summer Duck. Summer resident.

**Erismatura,** Bonaparte. Stiff-Tailed Ducks.
rubida, Bon. Ruddy Duck. Migrant.

**Mergus,** Linnæus. Mergansers.
merganser, L. Merganser. Goosander. Fish Duck. Migrant.

## Order X. LONGIPENNES. The Long-Winged Swimmers.

### Family 48. LARIDÆ. The Gulls.

**Larus,** Linnæus. Gulls.
argentatus, Brunn. Herring Gull. Com. G. Not com. sum. visitor.

**Chrœcocephalus,** Eyton. Rosy Gulls.
Philadelphia, Lawr. Bonaparte's Gull. Rare summer visitor.

## Order XI. PYGOPODES. The Diving Birds.

### Family 49. COLYMBIDÆ. The Loons.

**Colymbus,** Linnæus. Loons.
torquatus, Brunn. Great Northern Diver. Loon. Com. sum. res.

### Family 50. PODICIPIDÆ. The Grebes.

**Podilymbus,** Lesson. Dab-Chicks.
podiceps, Lawr. Diedapper. Hell-Diver. Dipper Duck. Migrant.

# CLASS III. REPTILIA. THE REPTILES.

## ORDER I. TESTUDINATA. THE TURTLES.

### FAMILY 51. EMYDIDÆ. THE POND TURTLES.

**Chelopus,** Rafinesque. Wood Turtles.
insculptus, LeC. Wood Tortoise. Not common.

**Chrysemys,** Gray. Painted Turtles.
picta, Ag. Painted Turtle. Mud Turtle. Very common.

### FAMILY 52. CHELYDRIDÆ. THE SNAPPING TURTLES.

**Chelydra,** Schweigger. Snapping Turtles.
serpentina, Schw. Common Snapping Turtle. Abundant.

## ORDER II. OPHIDIA. THE SERPENTS.

### FAMILY 53. COLUBRIDÆ. THE COLUBRINE SNAKES.

**Tropidonotus,** Kuhl. Water Snakes.
sipedon, Holbr. Water Snake. Not common.

**Storeria,** Baird and Girard. Red-Bellied Snakes.
occipitomaculata, B. & G. Red-B. S. Spotted-Necked S. Not rare.

**Eutænia,** Baird and Girard. Garter Snakes.
saurita, B. & G. Riband Snake. Swift Garter Snake. Probable.
sirtalis, B. & G. Common Garter Snake. Striped Snake. Very com.
var. ordinata, Cope. Brown Snake. Common.

**Diadophis,** Baird and Girard. Ring-Necked Snakes.
punctatus, B. & G. Ring-Necked Snake. Not common.

**Ophibolus,** Baird and Girard. King Snakes.
doliatus, B. & G., var. triangulus, Cope. Milk Snake. House Snake. Spotted Adder. Common.

# CLASS IV. BATRACHIA. THE BATRACHIANS

## ORDER I. ANURA. THE TAILLESS BATRACHIANS.

### FAMILY 54. **RANIDÆ.** THE FROGS.

**Rana,** Linnæus. Frogs.
halecina, Kalm. Leopard Frog. Common Frog. Abundant.
palustris, LeC. Pickerel Frog. Common.
clamitans, Merrem. Green Frog. Spring Frog. Not common.
Catesbiana, Shaw. Bull Frog. Not rare.
temporaria, L., var. sylvatica, Gthr. Wood Frog. Common.

### FAMILY 55. **HYLIDÆ.** THE TREE FROGS.

**Hyla,** Laurenti. Tree Frogs.
versicolor, LeC. Common Tree Toad. Very common.
Pickeringii, Holbrook. Pickering's Tree Toad. Rare.

**Chorophilus,** Baird. Little Tree Frogs.
triseriatus, Bd. Tree Frog. Probable.

### FAMILY 56. **BUFONIDÆ.** THE TOADS.

**Bufo,** Laurenti. Toads.
lentiginosus, Shaw. American Toad. Very common.

## ORDER II. URODELA. THE SALAMANDERS.

### FAMILY 57. **PLEURODELIDÆ.** THE NEWTS.

**Diemyctylus,** Rafinesque. Spotted Newts.
viridescens, Raf. Spotted Triton. Newt. Evet. Eft. Abundant.
miniatus, Raf. Red Eft. Red Evet. Common.

### FAMILY 58. **PLETHODONTIDÆ.** THE AMERICAN SALAMANDERS.

**Plethodon,** Tschudi. Plethodonts.
erythronotus, Bd. Red-Backed Salamanders. Common.
glutinosus, Bd. Viscid Salamander. Probable.

**Spelerpes,** Rafinesque. Cave Salamanders.
bilineatus, Bd. Two-Striped Salamander. Probable.
ruber, Gray. Red Triton. Common.

## Family 59. AMBLYSTOMIDÆ. The Amblystomas.

**Amblystoma,** Tschudi. Big Salamanders.
punctatum, Bd. Large Spotted Salamander. Common.
tigrinum, Bd. Tiger Salamander. Probable.

# CLASS V. PISCES. THE FISHES.

## ORDER I. TELEOCEPHALI. THE TYPICAL FISHES.

### FAMILY 60. ETHEOSTOMATIDÆ. THE DARTERS.

**Boleosoma,** DeKay. Tessellated Darters.
Olmstedi, Ag. Tessellated Darter. Probable.

### FAMILY 61. PERCIDÆ. THE PERCHES.

**Perca,** Linnæus. Perches.
Americana, Schranck. Common Yellow Perch. Abundant.

**Stizostethium,** Rafinesque. Pike Perches.
vitreum, Jordan & Copeland. Wall-Eyed Pike. Pike Perch. Yellow Pike. Ludlow, Vt.

### FAMILY 62. CENTRARCHIDÆ. THE SUN FISHES.

**Micropterus,** Lacepede. Black Bass.
salmoides, Gill. Small-Mouthed Black Bass. Moss Bass. Abundant.

**Lepomis,** Rafinesque. Sun Fishes.
auritus, Raf. Long-Eared Pond Fish. Red-Tailed Bream. Sun Perch. Probable.

**Eupomotis,** Gill & Jordan. Pond Fishes.
aureus, G. & J. Common Sun F. Pumpkin Seed. Bream. Abundant.

### FAMILY 63. COTTIDÆ. THE SCULPINS.

**Uranidea,** DeKay. Miller's Thumbs.
gracilis, Putnam. Miller's Thumb. Little Star Gazer. Common.

### FAMILY 64. GADIDÆ. THE COD FISHES.

**Lota,** Cuvier. Lings.
maculosa, Cuvier. Ling. Burbot. Chub Eel. Eel-Pout. Common.

### Family 65. ESOCIDÆ. The Pikes.

**Esox,** Linnæus. Pikes.

lucius, L. Great Lake Pike. Northern Pickerel. Ludlow and Plymouth, Vt.

reticulatus, LeSueur. Common Eastern Pickerel. Green Pike. Very common.

Americanus, Gmelin. Grass Pickerel. Banded Pickerel. Trout Pickerel. Common.

### Family 66. SALMONIDÆ. The Trout.

**Salmo,** Linnæus. Salmons.

fontinalis, Mitchill. Brook Trout. Speckled Trout. Very common.

### Family 67. CYPRINIDÆ. The Minnows.

**Hudsonius,** Girard. Minnows.

fluviatilis, Girard. Spawn-Eater. Probable.

**Lythrurus,** Jordan. Red-Fins.

diplœmius, Jordan. Red-Fin. Common.

**Luxilus,** Rafinesque. Shiners.

cornutus, Jordan. Common Shiner. Red-Finned Shiner. Rough-Head. Common.

**Notemigonus.** Rafinesque. Golden Shiners.

chrysoleucus, Jordan. Shiner. River Shiner. Bream. Common.

**Semotilus,** Rafinesque. Chubs.

corporalis, Putnam. Common Chub. Brook Minnow. Abundant.

bullaris, Jordan. Fall Fish. Dace. Roach. Abundant.

### Family 68. CATOSTOMIDÆ. The Suckers.

**Hypentelium,** Rafinesque. Crawl-a-Bottoms.

nigricans, Jordan. Stone Roller. Hog Sucker. "Mud S." Com.

**Catostomus,** LeSueur. Fine-Scaled Suckers.

teres, LeS. Common Sucker. White Sucker. Abundant.

## Order II. NEMATOGNATHI. The Sheat Fishes.

### Family 69. SILURIDÆ. The Cat Fishes.

**Amiurus,** Rafinesque. Cat Fishes.

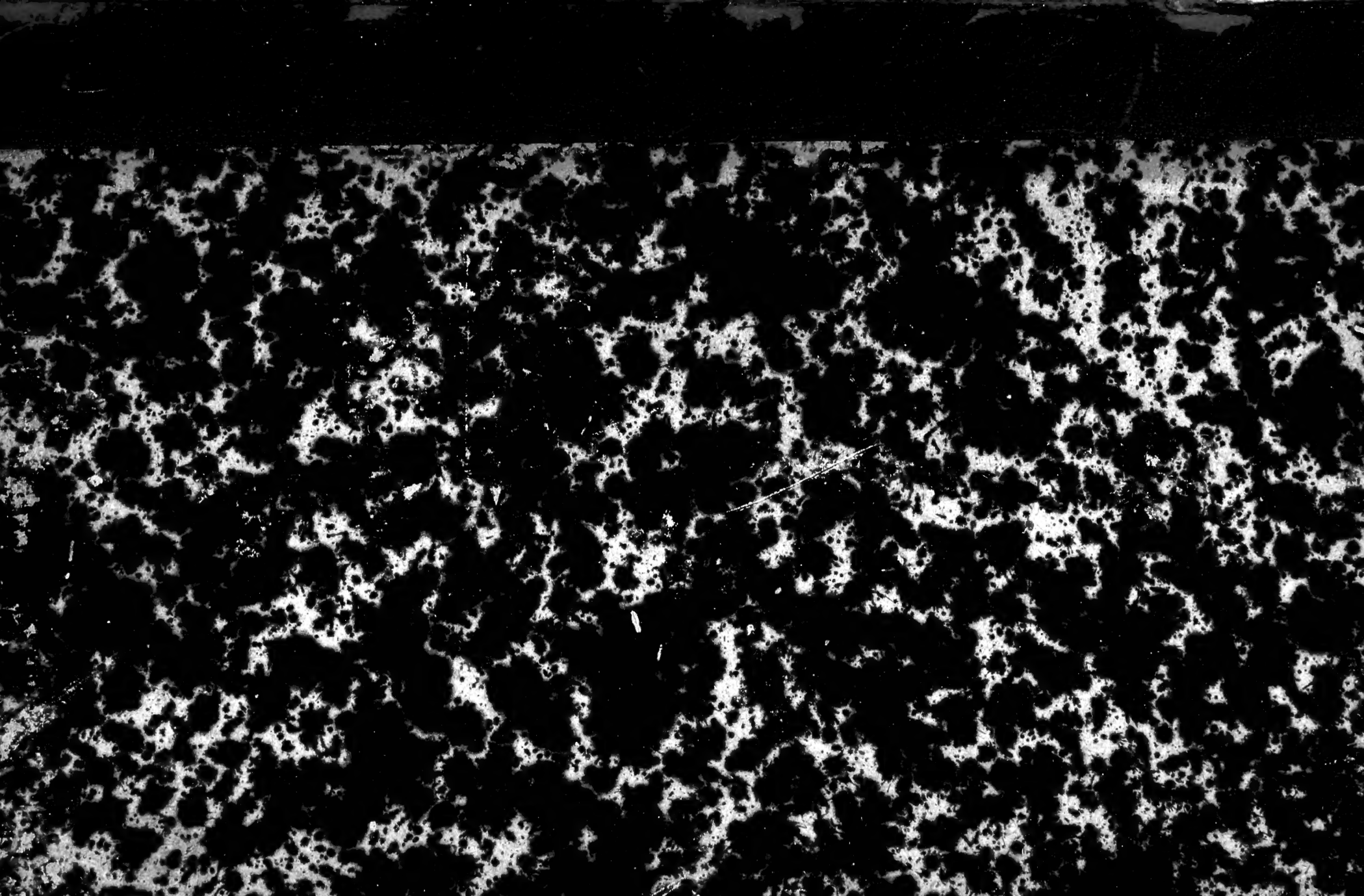
catus, Gill. Bull-Head. Horn Pout. Small Cat Fish. Common.

## Order III. APODES. The Eels.

### Family 70. ANGUILLIDÆ. The Eels.

**Anguilla,** Thunberg. Eels.
rostrata, DeK. Common American Eel. Abundant.

## SUMMARY OF SPECIES.

| | Probable Species. | Known Species. |
|---|---|---|
| Mammals, | 12 | 31 |
| Birds, | 33 | 144 |
| Reptiles, | 1 | 9 |
| Batrachians, | 4 | 13 |
| Fishes, | 3 | 19 |
| Total, | 53 | 216 |

Note.—It will be seen that in the above list of Vertebrates, along with the *known* species, some have been included designated as *probable* or *possible.* This has been done as a suggestion to any who may feel disposed to aid in correcting or completing the list. The co-operation of all such is invited, and they are requested to communicate with any one of the following gentlemen: T. W. D. Worthen, C. S. Cook, B. T. Blanpied, or the Editor, Hanover, N. H.